ENGLISH

Canon

DIGITAL
IXUS 900 Ti

Before Using the Camera
Shooting
Playback/Erasing
Print/Transfer Settings
Viewing Images on a TV set
Customizing the Camera
Troubleshooting
List of Messages
Appendix

Advanced Camera User Guide

This guide explains camera features and procedures in detail.

DiG!C III PictBridge DIRECT PRINT BUBBLE JET DIRECT Exif Print DPOF HI-SPEED CERTIFIED USB

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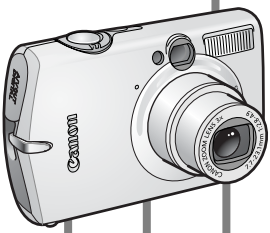
Main Features



Shooting

- Automatically adjusts shooting settings to match particular conditions (Special Scene mode)
- Avoid the effects of camera shake or blurry subjects when shooting by using high ISO speed
- Automatically detects camera orientation with an Intelligent Orientation sensor
- Changes image colors to create special effects (Color Accent, Color Swap)

Playback

- Organizes Images by Category
- Plays movies with sound
- Auto plays slideshows

Editing

- Adds effects to still images with the My Colors function
- Records sound memos for still images
- Edits movies

Printing

- Makes printing easy with the Print/Share button
- Also supports non-Canon brand *PictBridge* compliant printers

Uses of Recorded Images

- Effortlessly transfer them to a computer with the Print/Share button
- Freely customize the start-up image or start-up sound using the My Camera settings

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Conventions Used in this Guide

Icons appearing below titles indicate the modes in which the procedure can be used.

See *Functions Available in Each Shooting Mode* (p. 142).

In this guide, the *Basic Camera User Guide* is referred to as the *Basic Guide*, and the *Advanced Camera User Guide* is referred to as the *Advanced Guide*.

This mark denotes issues that may affect the camera's operation.

This mark denotes additional topics that complement the basic operating procedures.

You can use SD memory cards, SDHC memory cards and MultiMediaCards with this camera. These cards are collectively called memory cards in this guide.

Use of genuine Canon accessories is recommended.

This product is designed to achieve excellent performance when used with genuine Canon accessories. Canon shall not be liable for any damage to this product and/or accidents such as fire, etc., caused by the malfunction of non-genuine Canon accessories (e.g., a leakage and/or explosion of a battery pack). Please note that this warranty does not apply to repairs arising out of the malfunction of non-genuine Canon accessories, although you may request such repairs on a chargeable basis.

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Please Read

Test Shots

Before you try to photograph important subjects, we highly recommend that you shoot several trial images to confirm that the camera is operating and being operated correctly.

Please note that Canon Inc., its subsidiaries and affiliates, and its distributors are not liable for any consequential damages arising from any malfunction of a camera or accessory, including memory cards, that results in the failure of an image to be recorded or to be recorded in a way that is machine readable.

Warning Against Copyright Infringement

Please note that Canon digital cameras are intended for personal use and should never be used in a manner that infringes upon or contravenes international or domestic copyright laws and regulations. Please be advised that in certain cases the copying of images from performances, exhibitions, or commercial properties by means of a camera or other device may contravene copyright or other legal rights even if the image was shot for personal use.

Warranty Limitations

For information on your camera's warranty, please refer to the Canon European Warranty System (EWS) Booklet supplied with your camera.

For Canon Customer Support contacts, please see rear of the European Warranty System (EWS) Booklet.

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Camera Body Temperature

If your camera is used for prolonged periods, the camera body may become warm. Please be aware of this and take care when operating the camera for an extended period.

About the LCD Monitor

The LCD monitor is produced with extremely high-precision manufacturing techniques. More than 99.99% of the pixels operate to specification. Less than 0.01% of the pixels may occasionally misfire or appear as red or black dots. This has no effect on the recorded image and does not constitute a malfunction.

Video Format

Please set the camera's video signal format to the one used in your region before using it with a TV monitor (p. 103).

Language Setting

Please see the *Basic Guide* (p. 9) to change the language setting.

Safety Precautions

- Before using the camera, please ensure that you read the safety precautions described below and in the "Safety Precautions" section of the *Basic Camera User Guide*. Always ensure that the camera is operated correctly.
- The safety precautions noted on the following pages are intended to instruct you in the safe and correct operation of the camera and its accessories to prevent injuries or damage to yourself, other persons and equipment. Be sure you fully understand them before reading the rest of the manual.
- Equipment refers to the camera, battery charger or separately sold compact power adapter.
- Battery refers to the battery pack.

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⚠ Warnings

Equipment

- **Do not look directly at the sun or at other intense light sources through the viewfinder that could damage your eyesight.**

- **Store this equipment out of the reach of children and infants.**
  - Wrist strap: Placement of the strap around the child's neck could result in asphyxiation.
  - Memory card: Dangerous if accidentally swallowed. If this occurs, contact a doctor immediately.

- **Do not attempt to disassemble or alter any part of the equipment that is not expressly described in this guide.**
- **To avoid the risk of high-voltage electrical shock, do not touch the flash portion of the camera if it has been damaged.**
- **Stop operating the equipment immediately if it emits smoke or noxious fumes.**
- **Do not allow the equipment to come into contact with, or become immersed in, water or other liquids. If the exterior comes into contact with liquids or salt air, wipe it dry with a soft, absorbent cloth.**

Continued use of the equipment may result in fire or electrical shock. Immediately turn the camera power off and remove the camera battery or unplug the power cord from the power outlet. Please consult your camera distributor or the closest Canon Customer Support Help Desk.

- **Do not use substances containing alcohol, benzine, thinners or other flammable substances to clean or maintain the equipment.**
- **Do not cut, damage, alter or place heavy items on the power cord.**
- **Use only recommended power accessories.**
- **Remove the power cord on a regular periodic basis and wipe away the dust and dirt that collects on the plug, the exterior of the power outlet and the surrounding area.**
- **Do not handle the power cord if your hands are wet.**

Continued use of the equipment may result in fire or electrical shock.

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Battery

- **Do not place the battery near a heat source or expose it to direct flame or heat.**
- **The battery should not be immersed in water or sea water.**
- **Do not attempt to disassemble, alter or apply heat to the battery.**
- **Avoid dropping or subjecting the battery to severe impacts that could damage the casing.**
- **Use only recommended battery and accessories.**

Use of battery not expressly recommended for this equipment may cause explosions or leaks, resulting in fire, injury and damage to the surroundings. In the event that a battery leaks and the eyes, mouth, skin or clothing contact these substances, immediately flush with water and seek medical assistance.

- **Disconnect the battery charger and compact power adapter from both the camera and the power outlet after recharging or when they are not in use to avoid fire and other hazards.**
- **Do not place anything, such as tablecloths, carpets, bedding or cushions, on top of the battery charger while it is charging.**

Continued use over a long period may cause the units to overheat and distort, resulting in fire.

- **Use only the specified battery charger to charge the battery.**
- **The battery charger and compact power adapter are designed for exclusive use with your camera. Do not use it with other products or batteries.**

There is a risk of overheating and distortion which could result in fire or electrical shock.

- **Before you discard a battery, cover the terminals with tape or other insulators to prevent direct contact with other objects.**

Contact with the metallic components of other materials in waste containers may lead to fire or explosions.

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Others

- **Do not trigger the flash in close proximity to human or animal eyes. Exposure to the intense light produced by the flash may damage eyesight.**

In particular, remain at least one meter (39 inches) away from infants when using the flash.

- **Keep objects that are sensitive to magnetic fields (such as credit cards) away from the speaker of the camera.**

Such items may lose data or stop working.

⚠ Cautions

Equipment

- **Be careful not to bang the camera or subject it to strong impacts or shocks that could lead to injury or damage the equipment when wearing or holding it by the strap.**

- **Do not store the equipment in humid or dusty areas.**
- **Do not allow metal objects (such as pins or keys) or dirt to contact the charger terminals or plug.**

Such conditions could lead to fire, electrical shock or other damage.

- **Avoid using, placing or storing the equipment in places subject to strong sunlight or high temperatures, such as the dashboard or trunk (boot) of a car.**
- **Do not use the equipment in a manner that exceeds the rated capacity of the electrical outlet or wiring accessories. Do not use if the power cord or plug are damaged, or if not fully plugged into the outlet.**
- **Do not use in locations with poor ventilation.**

The above-mentioned can cause leakage, overheating or explosion, resulting in fire, burns or other injuries. High temperatures may also cause deformation of the casing.

- **When not using the camera for extended periods of time, remove the battery from the camera or battery charger and store the equipment in a safe place.**

The battery can run down.

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Equipment

- **Do not connect compact power adapters or battery chargers to devices such as electrical transformers for foreign travel because it may lead to malfunctions, excessive heat generation, fire, electric shock or injury.**

Flash

- **Do not operate the flash with dirt, dust or other items stuck to the surface of the flash.**
- **Be careful not to cover the flash with your fingers or clothing when shooting.**

The flash may be damaged and emit smoke or noise. The resulting heat build-up could damage the flash.

- **Do not touch the surface of the flash after taking several pictures in rapid succession.**

Doing so could result in burns.

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Preventing Malfunctions

Avoid Strong Magnetic Fields

- **Never place the camera in close proximity to electric motors or other equipment generating strong electromagnetic fields.**

Exposure to strong magnetic fields may cause malfunctions or corrupt image data.

Avoid Condensation Related Problems

- **When moving the equipment rapidly from a cold place to a hot place, you can avoid condensation by placing the equipment in an airtight, resealable plastic bag and letting it adjust to temperature changes slowly before removing it from the bag.**

Moving the equipment rapidly from a cold place to a hot place may cause condensation (water droplets) to form on its external and internal surfaces.

If Condensation Forms Inside the Camera

- **Stop using the camera immediately.**

Continued use may damage the equipment. Remove the memory card and battery or compact power adapter from the camera and wait until the moisture evaporates completely before resuming use.

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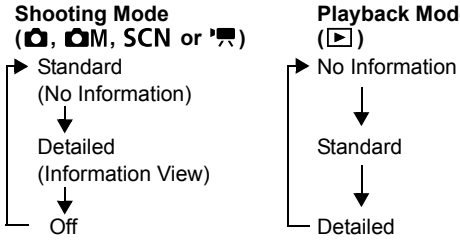
Using the LCD Monitor

1 Press (DISP).

- The display mode changes as follows with each press.



- The shooting information displays for approximately 6 sec. when a setting is changed, regardless of the selected display mode.

- The LCD monitor on or off setting is retained even after the camera power is turned off.
- The LCD monitor does not shut off in the P or mode.
- The LCD monitor will not switch to the detailed display (Information View) in the A, S or mode.
- The LCD monitor will not switch to detailed display in magnified display (p. 73), or index playback mode (p. 74).

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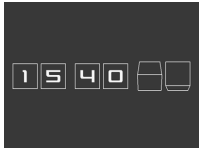
Using the Clock

You can display the current date and time for a 5-second* interval using the following two methods.

* Default setting



Method 1

Hold the **FUNC./SET** button down while turning on the power.

Method 2

In a shooting/playback mode, hold the **FUNC./SET** button down.

If you hold the camera horizontally, it displays the time. If you hold it vertically, the time and date display.

However, if you hold the camera vertically and use method 1 to display the date and time, the time will be initially displayed in the same way as when the camera is held horizontally.

- You can change the display color by pressing the ◀ or ▶ button.
- The clock display will cease when the display interval is over or when you operate the **FUNC./SET**, **MENU** or shutter button or the mode dial.
- The clock's display interval can be changed in the (Set up) menu (p. 27).
- The clock cannot be displayed in the index playback mode (p. 74).

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LCD Monitor Brightness

LCD Monitor Brightness Settings

The brightness of the LCD monitor can be changed in the following two ways.

- **Changing Settings Using the Set up Menu** **(p. 26)**
- **Changing Settings Using the DISP. Button (Quick-bright LCD Function)**

  You can set the LCD monitor to the brightest setting regardless of the option selected in the Set up menu by pressing the **DISP** button for more than one second.*

  - To restore the previous brightness setting, press the **DISP** button for more than one second again.
  - The next time you turn on the camera, the LCD monitor will be at the brightness setting selected in the Set up menu.

* You cannot change the brightness of the LCD monitor with this function if you have already set it to its highest setting in the Set up menu.

Night Display

When shooting in dark conditions, the camera automatically brightens the LCD monitor to suit the brightness of the subject*, making it easier to frame the subject.

* The movement of the subject shown on the LCD monitor will be jerky, but it will not affect the recorded images. The brightness of the image displayed in the monitor, and the brightness of the actual image recorded will be different.

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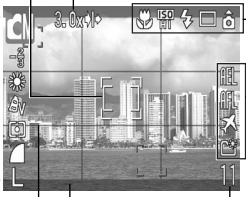
Information Displayed on the LCD Monitor

Shooting Information (Shooting mode)



[ ] * Spot Frame

[ ] * AF Frame (p. 46)

Zoom Magnification* (p. 35)

T * Digital Tele-converter (p. 35)

Macro/Infinity (*Basic Guide* p. 15)

ISO Speed (p. 65)

Flash (*Basic Guide* p. 14)

Shooting Method (p. 37, *Basic* p. 16)

Auto Rotate (p. 66)

● Rec.* Movie Recording (p. 40)

* Low Battery (p. 121)

3:2 Guide* (p. 39)

Grid Lines* (p. 39)

- Stills: Recordable Shots
- Movies: Remaining Time/ Elapsed Time

AEL * AE Lock (p. 49)

FEL * FE Lock (p. 50)

AFL * AF Lock (p. 47)

Time Zone (p. 20)

* Create Folder (p. 69)

Shooting Mode (pp. 32, 34, 40, 44, 60, 62, *Basic Guide* pp. 11 – 13)

Compression (Still Images) (p. 30)

Frame Rate (Movie) (p. 43)

−2 ··· +2 Exposure Compensation (p. 52)

1" ··· 15" Long Shutter Mode (p. 53)

Recording Pixels (pp. 30, 43)

(Red)* Camera Shake Warning (p. 108)

(The shutter speed will also display when the displays.)

White Balance (p. 55)

My Colors (p. 58)

Metering Mode (p. 51)

* Exposure Shift Bar (Movie) (p. 42)

* Appears even if the LCD monitor is set to Standard display.

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- If the indicator blinks orange and the camera shake icon displays, it indicates there is insufficient illumination and a slow shutter speed will be selected. Shoot using the following methods.
  - Raise the ISO speed (p. 65).
  - Select a setting other than (flash off) (*Basic Guide* p. 14).
  - Attach the camera to a tripod or other device.

Playback Information (Playback Mode)

Standard

WAVE Format Sound (p. 86)

Folder Number-File Number

Shooting Date/Time

Protection Status (p. 93)

Compression (Still Images) (p. 30)

Recording Pixels (Still Images) (p. 30)

Movie (p. 78)

Total number of images

Displayed image number

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Detailed

My Category information (p. 75)

Defined Playback (p. 76)

Histogram

Flash (*Basic Guide* p. 14)

Macro/Infinity (*Basic Guide* p. 15)

Metering Mode (p. 51)

White Balance (p. 55)

My Colors (Playback) (p. 84)

My Colors (Shooting) (p. 58), Color Accent/Color Swap (p. 60)

Image with the My Colors effect (p. 84)

File Size

Recording Pixels (Still Images) (p. 30)
Movie Length (Movies) (p. 40)

Shooting Mode (pp. 32, 34, 40, 44, 60, 62, *Basic Guide* pp. 11 – 13)

1" · · · 15"
Long Shutter Mode (p. 53)

ISO HI ISO 80 ISO100 ISO200 ISO400 ISO800 ISO1600 ISO3200
ISO Speed (p. 65)

1024 640 320 160 L30 L15
Recording Pixels/Frame Rate (Movies) (p. 43)

-2 · · · +2
Exposure Compensation (p. 52)

The following information may also be displayed with some images.

	A sound file in a format other than the WAVE format is attached or the file format is not recognized.
⚠	JPEG image not conforming to Design rule for Camera File System Standards
RAW	RAW image
?	Unrecognized data type

Information for images shot on other cameras may not display correctly.

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Histogram Function

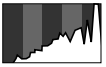
The histogram is a graph that allows you to judge the brightness of the image. The greater the bias toward the left in the graph, the darker the image. The greater the bias toward the right, the brighter the image.

If the image is too dark, adjust the exposure compensation to a positive value. Similarly, adjust the exposure compensation to a negative value if the image is too bright (p. 52).

Sample Histograms

Dark Image

Balanced Image



Bright Image

Using the Viewfinder

The viewfinder can be used to conserve power by turning the LCD monitor off (p. 12) while shooting.

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Power Saving Function

This camera is equipped with a power saving function. The power will shut off in the following circumstances. Press the ON/OFF button again to restore power.

Shooting Mode	Powers down approximately 3 minutes after the last control is accessed on the camera. The LCD monitor automatically turns off 1 minute* after the last control is accessed even if [Auto Power Down] is set to [Off]. Press any button other than the ON/OFF button or change the camera orientation to turn the LCD monitor back on.
Playback Mode **Connected to a Printer**	Powers down approximately 5 minutes after the last control is accessed on the camera.

* This time can be changed.

- The power saving function will not activate during a slide show or while the camera is connected to a computer.
- The power saving function settings can be changed (p. 26).

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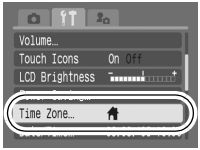
Setting the World Clock

When traveling abroad, you can record images with local dates and times simply by switching the time zone setting if you pre-register the destination time zones. You can enjoy the convenience of not having to switch the Date/Time settings.

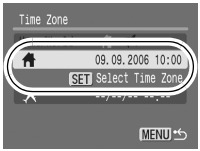
Setting the Home/World Time Zones

1 **(Set up) Menu ▶ [Time Zone] ▶ (FUNC. SET).**

See *Menus and Settings* (p. 23).



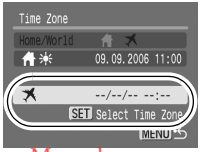
2 **▶ (FUNC. SET).**



3 **Use the ◀ or ▶ button to select a home time zone ▶ (FUNC. SET).**

- You can also select an area with the touch control dial.
- To set the daylight saving option, use the ▲ or ▼ button to display ☀. The time will advance by 1 hour.

4 **▶ (FUNC. SET).**



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5 **Use the ← or → button to select a destination time zone ▶ (FUNC./SET).**

- You can also select an area with the touch control dial. In addition, as in Step 3, you can set the daylight saving time.

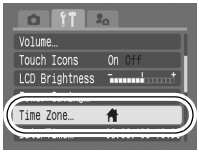
Time Difference from the Home Time Zone

6 **Use the ↑ or ↓ button to select [Home/World], and the ← or → button to select 🏠 ▶ (MENU).**

Switching to the Destination Time Zone

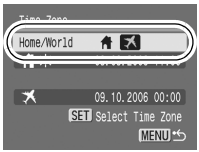
1 **(Set up) Menu ▶ [Time Zone] ▶ (FUNC./SET).**

See *Menus and Settings* (p. 23).



2 **Use the ← or → button to select ✈ ▶ (MENU).**

- To change the destination time zone, use the **FUNC./SET** button.



If you change the date and time when the World option is selected, the Home date and time will also change automatically.

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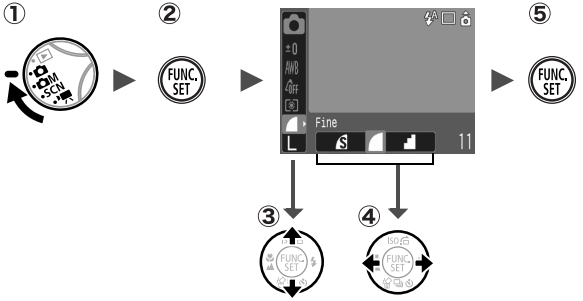
Menus and Settings

Menus are used to set the shooting, playback and print settings as well as such camera settings as the date/time and electronic beep. The following menus are available.

- **FUNC. Menu**
- **Rec., Play, Print, Set up and My Camera Menus**

FUNC. Menu

This menu sets many of the common shooting functions.



This example shows the FUNC. menu in (Auto) mode.

① **Turn the mode dial to , , SCN or .**

② **Press the FUNC./SET button.**

③ **Use the ▲ or ▼ button to select a menu item.**

- Some items may not be selectable in some shooting modes.

④ **Use the ◀ or ▶ button to select an option for the menu item.**

- You can select further options with the **MENU** button for some options.
- After selecting an option, you can press the shutter button to shoot immediately. After shooting, this menu will appear again, allowing you to adjust the settings easily.

⑤ **Press the FUNC./SET button.**

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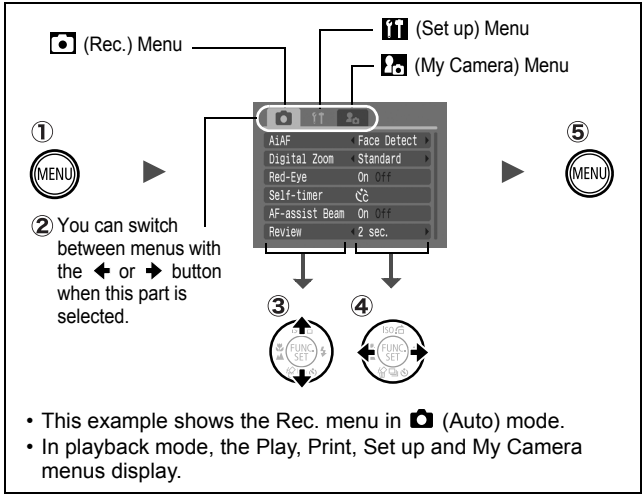
Rec., Play, Print, Set up and My Camera Menus

Convenient settings for shooting, playback or printing can be set with these menus.



- This example shows the Rec. menu in (Auto) mode.
- In playback mode, the Play, Print, Set up and My Camera menus display.

① **Press the MENU button.**

② **Use the ◀ or ▶ button to switch between menus.**
- You can also use the zoom lever to switch between menus.

③ **Use the ▲ or ▼ button to select menu items.**
- Some items may not be selectable in some shooting modes.

④ **Use the ◀ or ▶ button to select an option.**
- Menu items followed by an ellipsis (...) can only be set after pressing the **FUNC./SET** button to display the next menu. Press the **FUNC./SET** button again to confirm the setting.

⑤ **Press the MENU button.**

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Menu List

FUNC. Menu

The icons shown below are the default settings.

Menu Item	Page
Manual Mode	p. 32
Special Scene Mode	p. 32
Movie Mode	p. 40
Exposure Compensation	p. 52
Long Shutter Mode	p. 53
White Balance	p. 55

Menu Item	Page
My Colors	p. 58
Metering Mode	p. 51
Compression (Still Image)	p. 30
Frame Rate (Movie)	p. 43
Recording Pixels (Still Image)	p. 30
Recording Pixels (Movie)	p. 43

Rec. Menu

* Default setting

Menu Item	Options	Page/Topic
AiAF	Face Detect*/On/Off	p. 46
Digital Zoom	Standard*/Off/1.4x/2.3x (Standard*/Off in standard movie mode)	p. 35
Slow Synchro	On/Off*	p. 33
Red-Eye	On*/Off	p. 33
Self-timer	Delay: 0–10*, 15, 20, 30 sec. Shots: 1–10*[1]	*Basic Guide* p. 16
AF-assist Beam	On*/Off	p. 110
Review	Off/2*–10 seconds/Hold	*Basic Guide* p. 11
Save Original	On/Off*	p. 64
Auto Category	On*/Off	Sets whether or not images are automatically classified into categories during shooting.*[2]
Disp. Overlay	Off*/Grid Lines/3:2 Guide/Both (movie mode: Off*/Grid Lines)	p. 39
Date Stamp	Off*/Date/Date & Time	p. 38
Long Shutter	On/Off*	p. 53

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*1 Default setting is 3 shots.
*2 They are classified according to the following categories.
People: , , , or images with faces detected if [Face Detect] has been selected in [AiAF] mode.
Scenery:
Events: , , , , , ,

Play Menu

Menu Item	Page
Slide Show	p. 88
My Category	p. 75
Erase	p. 95
Protect	p. 93
My Colors	p. 84

Menu Item	Page
Sound Memo	p. 86
Rotate	p. 82
Transfer Order	p. 101
Transition	p. 83

Print Menu

Menu Item	Page
Print	p. 97
Select Images & Qty.	
Select by Date	
Select by Category	

Menu Item	Page
Select by Folder	p. 100
Select All Images	
Clear All Selections	
Print Settings	

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Set up Menu

* Default setting

Menu Item	Options	Page/Topic
Mute	On/Off*	Set to [On] to silence all sounds except warning sounds. (*Basic* p. 10)
Volume	Off/1/2*/3/4/5	Adjusts the volume of the start-up sound, operation sound, self-timer sound, shutter sound and playback sound. The volume cannot be adjusted if [Mute] is set to [On].
Start-up Vol.		Adjusts the volume of the start-up sound when the camera is turned on.
Operation Vol.		Adjusts the volume of the operation sound that plays when any button other than the shutter button is pressed.
Selftimer Vol.		Adjusts the volume of the self-timer sound played 2 sec. before the shutter is released.
Shutter Volume		Adjusts the volume of the sound played when the shutter releases. The shutter sound does not play when a movie is recording.
Playback Vol.		Adjusts the volume of movie sounds and sound memos.
Touch Icons	On*/Off	Sets whether or not the Touch Icons display in the LCD monitor when the touch control dial is touched.
LCD Brightness	-7 to 0* to +7	Use the ◀ or ▶ button to adjust the brightness. You can check the brightness in the LCD monitor while you are adjusting the setting.
Power Saving		p. 19
Auto Power Down	On*/Off	Sets whether or not the camera automatically powers down after a set period of time elapses without the camera being operated.
Display Off	10 sec./20 sec./ 30 sec./1 min.*/2 min./3min.	Sets the length of time before the LCD monitor turns off when no camera operation is performed.
Time Zone	Home*/World	p. 20

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Date/Time		*Basic Guide* p. 9
Clock Display	0–10*1 sec./20 sec./30 sec./1 min./2 min./3 min.	p. 13
Format		You can also set it to perform a low level format (p. 29).
File Numbering	Continuous*/ Auto Reset	p. 71
Create Folder		p. 69
Create New Folder	Check mark (On)/ No check mark (Off)	Creates a folder for the next shooting session.
Auto Create	Off*/Daily/ Monday–Sunday/ Monthly	You can also set the Auto Create time.
Auto Rotate	On*/Off	p. 66
Lens Retract	1 min.*/0 sec.	Sets the timing of the lens retraction when you switch from the shooting to the playback mode.
Language		*Basic Guide* p. 9
Video System	NTSC/PAL	p. 103
Print Method	Auto*/	See below. *2
Reset All		p. 28

*1 Default setting is 5 seconds.

*2 You can change the printer connection method. There is usually no need to change the settings, but select when you print an image recorded in the W (Widescreen) mode at the full page setting for wide paper using a Canon SELPHY CP730/CP720/CP710/CP510 Compact Photo Printer. Since this setting is saved even when the power is turned off, ensure that you return the setting to [Auto] to print other image sizes. (However, it cannot be changed while the printer is connected.)

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My Camera Menu

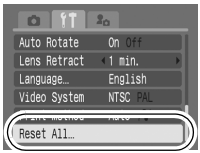
* Default setting

Menu Item	Available Settings	Page
Theme	Selects a common theme for each My Camera settings item.	p. 104
Start-up Image	Sets the image displayed when the camera power is turned on.	
Start-up Sound	Sets the sound played when the camera power is turned on.	
Operation Sound	Sets the sound played when any button other than the shutter button is pressed.	
Selftimer Sound	Sets the sound played 2 seconds before the shutter releases in self-timer mode.	
Shutter Sound	Sets the sound played when the shutter button is pressed. There is no shutter sound for movies.	
My Camera Menu Contents	(Off)/ 1*/ 2 / 3	

Resetting Settings to Their Default Values

1 **(Set up) Menu ▶ [Reset All].**

See *Menus and Settings* (p. 23).



2 **Select [OK] and press (FUNC SET).**

- Settings cannot be reset when the camera is connected to a computer or to a printer.
- The following cannot be reset.
  - Shooting mode
  - The [Time Zone], [Date/Time], [Language] and [Video System] options in the (Set up) menu (pp. 26, 27)
  - White balance data recorded with the custom white balance function (p. 56)
  - Colors specified in the [Color Accent] (p. 60) or [Color Swap] (p. 62) modes.
  - Newly added My Camera settings (p. 105)

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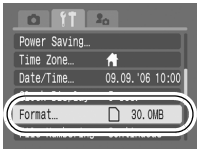
Formatting Memory Cards

You should always format a new memory card or one from which you wish to erase all images and other data.

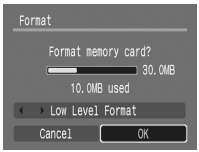
Please note that formatting (initializing) a memory card erases all data, including protected images and other file types.

1 (Set up) Menu ▶ [Format].

See *Menus and Settings* (p. 23).



2 Select [OK] and press (FUNC. SET).



- To perform a low level format, use the ▲ button to select [Low Level Format] and the ◀ or ▶ button to add a check mark.
- You can stop formatting a card when [Low Level Format] is selected by pressing the **FUNC./SET** button. You can still use a card without problem when formatting is halted, but its data will be erased.

- **Low Level Format**
  We recommend you select [Low Level Format] when you think that the recording/reading speed of a memory card has dropped. A low level format may require 2 to 3 minutes with some memory cards.
- A format cannot be performed in Stitch Assist mode.

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Changing the Recording Pixels and Compression (Still Images)

Shooting Mode

1 FUNC. Menu ▶ * (Compression)/ L* (Recording Pixels).

See *Menus and Settings* (p. 22).

* Default setting.

- Use the ◀ or ▶ button to select compression/recording pixels settings and press the **FUNC./SET** button.

Approximate Values for Recording Pixels

Recording Pixels			Purpose*
L (Large)	3648 x 2736 pixels	High	Printing to about A2-size 420 x 594 mm (16.5 x 23.4 in.)
M1 (Medium 1)	2816 x 2112 pixels		Printing to about A3-size 297 x 420 mm (11.7 x 16.5 in.)
M2 (Medium 2)	2272 x 1704 pixels		Printing to about A4-size 210 x 297 mm (8.3 x 11.7 in.) Printing to about Letter-size 216 x 279 mm (8.5 x 11 in.)
M3 (Medium 3)	1600 x 1200 pixels		Print postcard-size prints 148 x 100 mm (6 x 4 in.) Print L-size prints 119 x 89 mm (4.7 x 3.5 in.)
S (Small)	640 x 480 pixels	Low	Send images as e-mail attachments or shoot more images
or (Postcard)	1600 x 1200 pixels	When printing to postcards (p. 38).	
W (Widescreen)	3648 x 2048 pixels	Printing on wide size paper (you can check the composition at a 16:9 aspect ratio. Areas that will not be recorded appear on the LCD monitor as a black border.)	

* Paper sizes vary according to region.

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Approximate Values for Compression Settings

Compression		Purpose
Superfine	High Quality	Shoot higher quality images
Fine	↕	Shoot normal quality images
Normal	Normal	Shoot more images

- See *Image Data Sizes (Estimated)* (p. 135).
- See *Memory Cards and Estimated Capacities* (p. 134).

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SCN Shooting in a Special Scene Mode

Shooting Mode

You can take an optimal picture simply by selecting the appropriate shooting mode.

1 FUNC. Menu ▶ * (Portrait).

See *Menus and Settings* (p. 22).

*Default setting.

- Use the ← or → button to select a shooting mode and press the **FUNC./SET** button.
- See the *Basic Guide* (p. 12) for explanations of the Special Scene modes.

2 Shoot.

M Shooting in Manual Mode

Shooting Mode

You can adjust settings yourself, such as the exposure, white balance and ISO speed, when shooting in this mode.

1 FUNC. Menu ▶ * (Manual).

See *Menus and Settings* (p. 22).

*Default setting.

- See the *Basic Guide* (p. 12) for Manual mode explanations.

2 Change the settings as required and shoot.

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Red-Eye Reduction Function

Shooting Mode

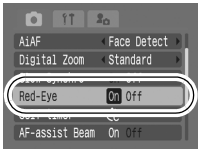
Setting the Red-Eye* reduction function to [On] causes the red-eye reduction lamp to fire with the flash.

*This function reduces the effect of light reflecting back from the eyes and making them appear red.

1 **(Rec.) Menu ▶ [Red-Eye] ▶ [On]*/[Off].**

See *Menus and Settings* (p. 23).

*Default setting.



Setting the Slow Synchro

Shooting Mode

You can shoot with the flash at slow shutter speeds. This is handy for shooting at night or under artificial lighting indoors.

1 **(Rec.) Menu ▶ [Slow Synchro] ▶ [On]/[Off]*.**

See *Menus and Settings* (p. 23).

*Default setting.

You are recommended to fix the camera to a tripod to shoot in this mode.

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Magnified Close-Up Shooting (Digital Macro)

Shooting Mode

You can shoot a subject 5 – 50 cm (2.0 in. – 1.6 ft.) from the end of the lens at the maximum wide angle setting. With the digital zoom, the image area is 14 x 11 mm (0.55 x 0.43 in.) at maximum zoom (approximately 4.0 times).

1 FUNC. Menu ▶ * (Manual) ▶ (Digital Macro).

See *Menus and Settings* (p. 22).

*Default setting.

2 Choose the angle of view with the zoom lever and shoot.

- The camera will zoom in as far as the safe zoom factor (safety zoom) to avoid coarse image quality for the selected resolution and stop, and will display on the LCD monitor. If you press the zoom lever toward again, you can zoom in more (to the maximum).
  At this point, the displayed zoom factor on the LCD monitor will change from white to blue.

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Using the Digital Zoom/Digital Tele-Converter

Shooting Mode

You can shoot zoomed images using the combined digital and optical zooms. The focal lengths (35 mm film equivalent) and characteristics are as follows.

Option	Focal Length	Characteristics
Standard	37 – 444 mm	You can shoot at a maximum zoom factor of approximately 12 times using a combination of the optical and digital zoom features.
Off	37 – 111 mm	Shoots without using the digital zoom.
1.4x	51.8 – 155 mm	The digital zoom locks at the selected factor and the focal length shifts to the telephoto setting. Compared with the [Standard] and [Off] options at a similar angle of view, this option uses a higher shutter speed to reduce the potential for camera shake. *Cannot be used in mode.
2.3x	85.1 – 255 mm	

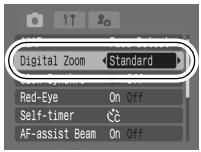
- The digital zoom cannot be used when the LCD monitor is turned off.
- The digital zoom cannot be used in the or (Postcard mode) or the (Widescreen) mode.

1 **(Rec.) Menu ▶ [Digital Zoom] ▶ [Standard]*/[Off]/[1.4x]/[2.3x].**

See *Menus and Settings* (p. 23).

*Default setting.

- **Standard**
  See *Using the Digital Zoom* (p. 36).
- **1.4x/2.3x**
  See *Using the Digital Tele-Converter* (p. 36).



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Using the Digital Zoom

2 Press the zoom lever toward [W] and shoot.

- The combined optical and digital zoom factor will appear on the LCD monitor.
- The camera will zoom in as far as the safe zoom factor (safety zoom) to avoid coarse image quality for the selected resolution and stop, and will display on the LCD monitor. If you press the zoom lever toward [W] again, you can zoom in more (to the maximum).
  At this point, the displayed zoom factor on the LCD monitor will change from white to blue.
- Pressing the zoom lever toward [T] reduces the zoom factor.

Using the Digital Tele-Converter

2 Adjust the angle of view with the zoom lever and shoot.

- [T] will display on the LCD monitor.
- The image may appear coarse depending upon the selected resolution. The [T] icon and the zoom factor display will appear in blue.

Digital Tele-Converter

About the Digital Tele-Converter

A digital tele-converter is a function that reproduces the effect of a tele-converter lens (supplemental lens that extends the zoom factor of a lens) when the digital zoom is used.

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Continuous Shooting

Shooting Mode

In this mode, the camera shoots continuously while the shutter button is held down.

If you use the recommended memory card*, you can shoot continuously at a set shooting interval until the memory card is full (smooth continuous shooting) (p. 134).

***Recommended Memory Card**

Super high speed SDC-512 MSH memory card (sold separately) newly formatted with low level formatting (p. 29).

- This reflects standard shooting criteria established by Canon. Actual results may vary according to the subject and shooting conditions.
- Even if continuous shooting suddenly stops, the memory card may not be full.

1 Press the button and use the ▲ or ▼ button to display .

2 Shoot.

- The camera will continue to record successive images while the shutter button is fully pressed. Recording will cease when the shutter button is released.

To Cancel Continuous Shooting

Select in Step 1.

- The interval between shots lengthens when the built-in memory of the camera fills.
- If the flash is used, the interval between shots lengthens because the flash must charge.

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Postcard Mode

Shooting Mode

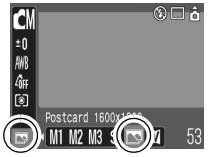
You can shoot images with the optimal settings for postcards by composing them inside the print area (width-to-height ratio of approximately 3:2) shown in the LCD monitor.

1 FUNC. Menu ▶ L * (Recording Pixels) ▶ (Post Card).

See *Menus and Settings* (p. 22).

*Default setting.

- The recording pixels are set to M3 (1600 x 1200) and the compression to (Fine).
- The area that will not print displays in gray.



The digital zoom or the digital tele-converter cannot be used in this mode.

For printing instructions, refer to the *Direct Print User Guide*.

Embedding the Date in the Image Data

You can embed the date in image data when (Postcard) is selected.

1 (Rec.) Menu ▶ [Date Stamp] ▶ [Off]*/ [Date]/[Date & Time].

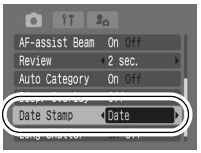
See *Menus and Settings* (p. 23).

*Default setting.

●LCD Monitor Display

: [Off]

: [Date]/[Date & Time]



- Ensure that the camera's date/time is set beforehand (p. 27).
- The date stamp cannot be deleted from the image data once it has been set.

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Setting the Display Overlay

Shooting Mode

You can check a composition's horizontal and vertical alignment as well as a 3:2 aspect ratio print range on the LCD monitor by using a shooting guide while shooting.

Grid Lines	Displays grid lines dividing the monitor into 9 areas, allowing you to check the subject's horizontal and vertical alignment.
3:2 Guide	You can check what can be printed in a composition using a 3:2 aspect ratio. The portion that will not print displays in gray. *Images are recorded at the same aspect ratio of 4:3 as shown in the normal viewing mode.
Both	You can display both the grid lines and 3:2 guide at the same time.

1 (Rec.) Menu ▶ [Disp. Overlay] ▶ [Off]*/ [Grid Lines]/[3:2 Guide]/[Both].

See *Menus and Settings* (p. 23).

*Default setting.

- The grid lines and 3:2 Guide do not appear on recorded images.
- In mode, only [Grid Lines] can be used.

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Movie Shooting

Shooting Mode

The following movie modes are available.
For information on the recording pixels and frame rate in each mode, refer to *Changing Recording Pixels and Frame Rates* (p. 43).

Standard	
	You can select the recording pixels and frame rate and record until the memory card is full (when a super high-speed memory card is used, such as the recommended SDC-512MSH). The digital zoom can be used while shooting in this mode. (p. 35)
	• Maximum Size: 4 GB*/movie
High Resolution	
	Use this to display images at large sizes on computer monitors.
	• Maximum Size: 4 GB*/movie
Compact	
	Since there are few recording pixels and also the data size is small, this mode is convenient for sending movies as e-mail attachments or when the memory card capacity is low.
	• Maximum Clip Length: 3 minutes
Color Accent **Color Swap**	
	You can have only the specified color remain and change all others into black and white, or change a specified color into a different color (pp. 60, 62). As with the Standard mode, you can also select the recording pixels and frame rate and record until the memory card is full (when a super high-speed memory card is used, such as the recommended SDC-512MSH).
	• Maximum Size: 4 GB*/movie

- The recording time will vary according to the capacity of the memory card you use (p. 134).

* Recording will stop after one hour of continuous recording even if the recorded data volume has not reached 4 GB.

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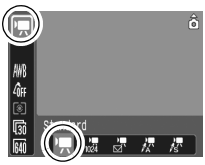
1 FUNC. Menu ▶ * (Standard).

See *Menus and Settings* (p. 22).

*Default setting.



- Use the ◀ or ▶ button to select a movie mode and press the **FUNC./SET** button.
- In , , or mode, you can change the recording pixels and frame rate (p. 43).
- See *Changing Colors* (p. 60) for the procedures for using and .

2 Shoot.

- Pressing the shutter button halfway automatically sets the exposure, focus and white balance settings.
- Pressing the shutter button fully starts recording video and sound simultaneously.
- During shooting the recording time and [●Rec] appear on the LCD monitor.
- Pressing the shutter button fully again stops recording. Recording will stop automatically under the following circumstances.
  - When the maximum recording time elapses
  - When the built-in memory or memory card become full

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- You are recommended to use a memory card that has been formatted in your camera to shoot movies (p. 29). The card supplied with the camera may be used without further formatting.
- Be careful of the following while recording.
  - Try not to touch the microphone.
  - Do not press any buttons other than the shutter button. The sound that buttons make will be recorded in the movie.
  - The camera will automatically adjust the exposure and white balance to suit the shooting conditions during recording. Please note, however, that the sounds made by the camera automatically adjusting the exposure may also be recorded.
- The focus and optical zoom settings remain fixed for subsequent frames at the values selected for the first frame.
- Do not aim the camera toward the sun to shoot.

- Before recording, you can set the AE lock (p. 49) and exposure shift.
  1. Press the ISO button.
     The exposure will lock (AE lock) and the exposure shift bar will appear in the LCD monitor.
  2. Use the ◆ or ◆ button to adjust the exposure.
     Press the ISO button again to release the setting. Also, the setting will be canceled if you press the **MENU** button or change the white balance, My Colors or shooting mode settings.
- QuickTime 3.0 or later is required to play back movies (Data type: AVI/Compression method: Motion JPEG) on a computer. QuickTime (for Windows) is included on the Canon Digital Camera Solution Disk. On the Macintosh platform, this program is standard with Mac OS X or later.

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Changing Recording Pixels and Frame Rates

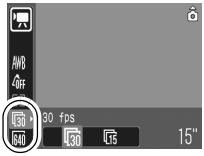
You can change the recording pixels and frame rate when the movie mode is set to (Standard), (Color Accent) or (Color Swap).

1 FUNC. Menu ▶ * (Frame Rate)/ * (Recording Pixels).

See *Menus and Settings* (p. 22).

*Default setting.

- Use the ◀ or ▶ button to select recording pixels/frame rate settings and press the **FUNC./SET** button.



Recording Pixels and Frame Rates

Frame rates indicate the number of frames recorded or played back each second. The higher the frame rate, the smoother the appearance of motion.

	Recording Pixels	Frame Rate (frames/sec.)	
		30	15
Standard Color Accent Color Swap	640 640 x 480 pixels	❍*1	❍
	320 320 x 240 pixels	❍	❍
High Resolution*2	1024 1024 x 768 pixels	–	❍
Compact*2	160 160 x 120 pixels	–	❍

*1 Default setting

*2 The recording pixels and frame rate are fixed.

- See *Image Data Sizes (Estimated)* (p. 135).
- See *Memory Cards and Estimated Capacities* (p. 134).

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Shooting Panoramic Images (Stitch Assist)

Shooting Mode

Stitch Assist can be used to shoot overlapping images that can later be merged (stitched) to create one panoramic image on a computer.

The overlapping seams of several adjacent images can be joined into a single panoramic image.

1 FUNC. Menu ▶ *(Manual) ▶ / (Stitch Assist).

See *Menus and Settings* (p. 22).

*Default setting.

- You can select from the following two shooting directions.
  - Left to right horizontally
  - Right to left horizontally

2 Shoot the first image in the sequence.

- The exposure and white balance are set and locked with the first image.

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3 Compose the second image so that it overlaps a portion of the first and shoot.

- You can retake a shot by pressing the ◆ or ◆ button and returning to the previously recorded image screen.
- Minor discrepancies in the overlapping portions can be corrected when the images are stitched together.

4 Repeat the procedure for additional images.

- A sequence may contain up to 26 images.
- Press the **FUNC./SET** button after the last shot.

- You cannot display the images on a TV when shooting in Stitch Assist mode.
- The settings for the first image are applied to the second image onward.

Use PhotoStitch, a supplied software program, to merge the images on a computer.

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Switching between Focusing Modes

Shooting Mode

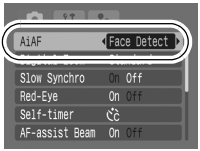
Select from among the following three focusing methods.

	Face Detect	You can have the camera automatically detect the position of a face and use this data to set the focus and exposure* while shooting. *Only in evaluative metering mode (p. 51).
(No frame)	**On**	The camera detects the subject and highlights the AF frames, from 9 available points, that it will use to determine the focus.
□	**Off**	The camera focuses using the center AF frame. This is convenient for focusing on a specific part of a subject with greater certainty.

1 **(Rec.) Menu ▶ [AiAF] ▶ [Face Detect]*/[On]/[Off].**

See *Menus and Settings* (p. 23).

*Default setting.



[Face Detect] cannot be used when the LCD monitor is turned off.

- The AF frame appears as follows (when the LCD monitor is on) when the shutter button is pressed halfway.
  - Green: Shooting preparations complete
  - Yellow: Focusing difficulty (AiAF set to [Off])
- The following occurs when [Face Detect] is selected.
  - Up to three AF frames display. At this point, the frame the camera judges to be the main subject appears in white while the others appear in gray. Pressing the shutter button halfway displays up to 9 green AF frames.
  - If no white frame displays and all the frames appear in gray, images will be shot using the [On] option rather than [Face Detect].

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- The camera may mistakenly identify non-human subjects as a face. If this occurs, switch to the [On] or [Off] options.
- When a face is not detected, images will be shot using the [On] option.

● In [Face Detect] mode, faces may not be detected under the following circumstances.
- If the face appears small, large, dark or bright relative to the overall composition.
- If the face is turned horizontally or diagonally, or if a portion is obscured.

Shooting Hard-to-Focus Subjects (Focus Lock, AF Lock)

Shooting Mode

It may be difficult to focus on the following types of subjects.
- ●Subjects with extremely low contrast to the surroundings
- ●Scenes with a mixture of near and far subjects.
- ●Subjects with extremely bright objects at the center of the composition
- ●Subjects that are moving quickly
- ●Subjects through glass: Try to shoot as close to the glass as possible to reduce the chances of light reflecting back off the glass.

Shooting with the Focus Lock

The focus lock can be used in any shooting mode.

1 **Aim the camera so that an object at the same focal distance as the main subject is centered in the viewfinder or in the AF frame displayed on the LCD monitor.**

2 **Press the shutter button halfway to set the focus.**

3 **Keep the button pressed, re-aim the camera to compose the shot as desired and press the shutter button fully.**

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Shooting with the AF Lock

The AF lock can be used in the , , , or mode.

1 Turn on the LCD monitor.

2 Aim the camera so that an object at the same focal distance as the main subject is centered in the AF frame.

3 Press the shutter button halfway and press the /▲ button.

- The AFL icon will display and the lower indicator will light yellow.

4 Re-aim the camera to compose the shot as desired and shoot.

To Release the AF Lock

Press the /▲ button.

- When shooting with the focus lock or AF lock using the LCD monitor, setting [AiAF] to [Off] (p. 46) makes shooting easier since the camera focuses using the center AF frame only.
- The AF lock is convenient because you can let go of the shutter button to compose the image. Moreover, the AF lock is still effective after the picture is taken, allowing you to capture a second image with the same focus.
- In mode the AF frame does not display.

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Locking the Exposure Setting (AE Lock)

Shooting Mode

You can set the exposure and focus separately. This is effective when the contrast is too strong between the subject and background or when a subject is backlit.

You must set the flash to [ ].
The AE lock cannot be used when the flash is set to fire.

1 Turn on the LCD monitor.

2 Focus on the part of the subject on which you wish to lock the exposure setting.

3 Press the shutter button halfway and press the ISO button.

- The AEL icon will display.

4 Re-aim the camera to compose the shot as desired and press the shutter button fully.

To Release the AE Lock

Press the ISO button.

- In mode, AE lock can also be set/canceled (p. 42).
- You can use the FE lock when using the flash.

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Locking the Flash Exposure Setting (FE Lock)

Shooting Mode

You can lock the flash exposure so that the exposure settings are correctly set regardless of the composition of your subject.

1 **Turn on the LCD monitor.**

2 **Press the ⚡ button and select ⚡ (flash on).**

3 **Focus on the part of the subject on which you wish to lock the flash exposure setting.**

4 **Press the shutter button halfway and press the ISO button.**

- The flash will pre-fire and FEL will display.

5 **Re-aim the camera to compose the shot as desired and press the shutter button fully.**

To Release the FE Lock

Press the ISO button.

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Switching between Metering Modes

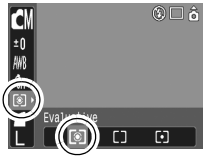
Shooting Mode

1 FUNC. Menu ▶ * (Evaluative).

See *Menus and Settings* (p. 22).

*Default setting.

- Use the ◀ or ▶ button to select the metering mode and press the **FUNC./SET** button.



Metering Methods

	Evaluative	Appropriate for standard shooting conditions, including backlit scenes. The camera divides images into several zones for metering. It evaluates complex lighting conditions, such as the position of the subject, the brightness, the direct light, and the backlighting, and adjusts the settings to the correct exposure for the main subject.
	Center Weighted Average	Averages the light metered from the entire frame, but gives greater weight to the subject matter at the center.
	Spot	Meters the area within the spot AE point at the center of the LCD monitor. Use this setting when you want to set the exposure on the subject in the center of the monitor.

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Adjusting the Exposure Compensation

Shooting Mode

Adjust the exposure compensation setting to avoid making the subject too dark when it is backlit or shot against a bright background or to avoid making lights appear too bright in night shots.

1 FUNC. Menu ▶ ±0* (Exposure Compensation).

See *Menus and Settings* (p. 22).

*Default setting.

- Use the ◀ or ▶ button to adjust the exposure compensation and press the **FUNC./SET** button.

To Cancel the Exposure Compensation

Restore the compensation value to [0].

In mode, the exposure shift can be set/canceled (p. 42).

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Shooting in Long Shutter Mode

Shooting Mode

You can set the shutter speed to a slow setting to make dark subjects appear brighter.

1 **(Rec.) Menu ▶ [Long Shutter] ▶ [On].**

See *Menus and Settings* (p. 23).

2 **FUNC. Menu ▶ ±0* (Exposure Compensation) ▶ (MENU).**

See *Menus and Settings* (p. 22).

*Default setting.

3 **Use the ← or → button to select the shutter speed ▶ (FUNC SET).**

- The higher the value, the brighter the image and the lower the value, the darker the image.
- If you press the **MENU** button at this point, you will return to the Exposure Compensation setting screen.

Shooting

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The nature of CCD image sensors is such that noise in the recorded image increases at long shutter speeds. This camera, however, applies special processing to images shot at shutter speeds slower than 1.3 seconds to eliminate the noise, thereby producing high-quality images. A certain amount of processing time, however, may be required before the next image can be shot.

- Use the LCD monitor to confirm that the image was recorded at the desired brightness.
- Please note that camera shake becomes a factor at low shutter speeds. Shoot with the camera attached to a tripod.
- Use of the flash may result in an over-exposed image. If this occurs, shoot with the flash set to .
- The following are unavailable:
  - Exposure Compensation
  - Metering
  - AE Lock
  - FE Lock
  - ISO speed: Auto, High ISO Auto
  - Flash: Auto
  - Slow Synchro

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Adjusting the Tone (White Balance)

Shooting Mode

Normally, the AWB (Auto) white balance setting selects an optimal white balance. When the AWB setting cannot produce natural looking colors, change the white balance using a setting appropriate for the light source.

1 FUNC. Menu ▶ AWB* (Auto).

See *Menus and Settings* (p. 22).

*Default setting.

- Use the ◀ or ▶ button to select a white balance setting and press the **FUNC./SET** button.

White Balance Settings

AWB	**Auto**	Settings are automatically set by the camera
	Day Light	For recording outdoors on a bright day
	Cloudy	For recording under overcast, shady or twilight skies
	Tungsten	For recording under tungsten and bulb-type 3-wavelength fluorescent lighting
	Fluorescent	For recording under warm-white, cool-white or warm-white (3-wavelength) fluorescent lighting
	Fluorescent H	For recording under daylight fluorescent, or daylight fluorescent-type 3-wavelength fluorescent lighting
	Custom	For recording with the optimal white balance data retained in the camera from a white-colored object, such as white paper or cloth

This setting cannot be adjusted when the My Colors mode is set to Se or Bw.

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Using the Custom White Balance

You can set a custom white balance to obtain the optimal setting for the shooting conditions by having the camera evaluate an object, such as a piece of white paper or cloth, or a photo-quality gray card that you wish to establish as the standard white color.

In particular, take a custom white balance reading for the following situations that are difficult for the AWB (Auto) setting to detect correctly.

- Shooting close-ups
- Shooting subjects of monotone color (such as sky, sea or forest)
- Shooting with a peculiar source of light (such as a mercury-vapor lamp)

1 FUNC. Menu ▶ AWB* (Auto) ▶ (Custom).

See *Menus and Settings* (p. 22).

* Default setting.

2 Aim the camera at a piece of white paper or cloth and press (MENU).

- If you are viewing it with the LCD monitor, ensure that the center frame is completely filled with the white image. If you are using the optical viewfinder, ensure that the entire field is filled. Please note, however, the center frame will not display when the zoom is set to a factor or 4.2x or greater or when T displays.

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- You are recommended to set the shooting mode to M and the exposure compensation setting to [±0] before setting a custom white balance.
  The correct white balance may not be obtained when the exposure setting is incorrect (image appears completely black or white).
- Shoot with the same settings as when reading the white balance data. If the settings differ, the optimal white balance may not be set.
  In particular, the following should not be changed.
  - ISO Speed
  - Flash
    Setting the flash to on or off is recommended. If the flash fires when reading the white balance data with the flash set to (Auto), make sure that you also use the flash when you shoot.
- Since the white balance data cannot be read in Stitch Assist mode, preset the white balance in another shooting mode beforehand.

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Shooting in a My Colors Mode

Shooting Mode

You can change the look and feel of the pictures you take.

My Colors Settings

Off	**My Colors Off**	Records normally with this setting.
V	**Vivid**	Emphasizes the contrast and color saturation to record bold colors.
N	**Neutral**	Tones down the contrast and color saturation to record neutral hues.
Se	**Sepia**	Records in sepia tones.
BW	**B/W**	Records in black and white.
P	**Positive Film**	Use this option to make red, green or blue colors more intense like the Vivid Red, Vivid Green or Vivid Blue effects. It can produce intense natural-appearing colors like those obtained with positive film.
L	**Lighter Skin Tone***	Use this option to make skin tones lighter.
D	**Darker Skin Tone***	Use this option to make skin tones darker.
B	**Vivid Blue**	Use this option to emphasize blue tints. It makes blue subjects, such as the sky or ocean, more vivid.
G	**Vivid Green**	Use this option to emphasize green tints. It makes green subjects, such as mountains, new growth, flowers and lawns, more vivid.
R	**Vivid Red**	Use this option to emphasize red tints. It makes red subjects, such as flowers or cars, more vivid.
C	**Custom Color**	Use this option to adjust the contrast, sharpness or saturation settings or the color balance between red, green, blue and skin tones*. It can be used to make subtle adjustments, such as making blue colors more vivid or face colors brighter.

* If the image contains colors that are the same as human skin, those colors will also be changed.

* You may not obtain the expected results depending on the skin color.

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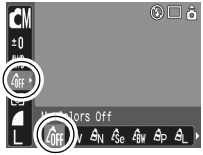
1 FUNC. Menu ▶ * (My Colors Off).

See *Menus and Settings* (p. 22).

*Default setting.



- Use the ◆ or ◆ button to select a My Colors mode.
- **In**
  See *Setting the Camera to a Custom Color Mode* (p. 59).
- **When not in**
  Press the **FUNC./SET** button to return to the shooting screen.

2 Shoot.

Setting the Camera to a Custom Color Mode

This mode allows you to adjust the contrast, sharpness and saturation and the color balance for red, green, blue and skin tones.

1 FUNC. Menu ▶ * (My Colors Off) ▶ (Custom Color) ▶ (MENU).

See *Menus and Settings* (p. 22).

*Default setting.

2 Use the ◆ or ◆ button to select [Contrast], [Sharpness], [Saturation], [Red], [Green], [Blue] or [Skin Tone] and the ◆ or ◆ button to adjust the setting.

Select a category — Adjust it

- The altered color will display.

3 (FUNC. SET).

- This completes the setting.
- If you press the **MENU** button at this point, you will return to the screen where you can select a My Colors mode.

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Changing Colors

Shooting Mode

You can shoot images with the original colors transformed. This can be performed on movies as well as still images, allowing you to enjoy photographing with image or movie effects.

However, depending on the shooting conditions, the images may appear rough or you may not get the expected color. Before you try to photograph important subjects, we highly recommend that you shoot trial images and check the results.

If you set [Save Original] (p. 64) to [On] when shooting a still image, you can record the original image as well the transformed one.

	Color Accent	Use this option to have only the color specified in the LCD monitor remain and to transform all others to black and white.
	Color Swap	Use this option to transform a color specified in the LCD monitor into another. The specified color can only be swapped into one other color, multiple colors cannot be chosen.

The ISO speed will rise depending on the shooting conditions, which may increase the "noise" in the image.

Shooting in the Color Accent Mode

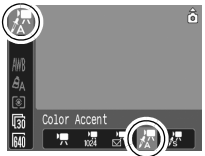
1 **Stills: FUNC. Menu ▶ *(Manual) ▶ (Color Accent).**

Movies: FUNC. Menu ▶ * (Standard) ▶ (Color Accent).

See *Menus and Settings* (p. 22).

*Default setting.

Stills



Movies

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2 FUNC. SET.

- The Color Accent mode will take effect.

3 DISP.

- The camera will switch to color input mode and the display will alternate between the original image and the color accent image (using the previously set color).

4 Aim the camera so that the color you wish to retain appears at the center of the LCD monitor and press the ← button.

- Only one color can be specified.
- You can use the ↑ or ↓ button to specify the range of colors that are retained.
  - -5: Only takes the color that you want to retain
  - +5: Also takes colors close to the one that you want to retain

5 Press DISP. to complete the setting, then shoot.

- The default color accent is green.
- You may not obtain the expected results if you use the flash.
- The specified color accent is retained even if the camera's power is turned off.

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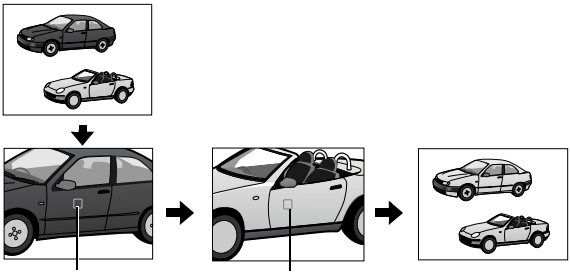
Shooting in the Color Swap Mode



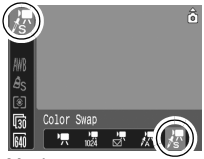
1 **Stills: FUNC. Menu ▶ *(Manual) ▶ (Color Swap).**

Movies: FUNC. Menu ▶ * (Standard) ▶ (Color Swap).

See *Menus and Settings* (p. 22).

*Default setting.

Stills



Movies

2 FUNC. SET.

- The Color Swap mode will take effect.

3 DISP.

- The camera will switch to color input mode and the display will alternate between the original image and the color swap image (using the previously set color).

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4 Aim the camera so that the original color appears at the center of the LCD monitor and press the ◀ button.

- Only one color can be specified.
- You can use the ▲ or ▼ button to specify the range of colors that are swapped.
  - -5: Only takes the color that you want to swap
  - +5: Also takes colors close to the one that you want to swap

5 Aim the camera so that the desired color appears at the center of the LCD monitor and press the ▶ button.

- Only one color can be specified.

6 Press (DISP.) to complete the setting, then shoot.

- The default setting for color swap mode changes green into white.
- You may not obtain the expected results if you use the flash.
- The colors specified in the color swap mode are retained even if the camera's power is turned off.

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Changing the Save Method for the Original Image

When shooting still images in the Color Accent or Color Swap mode, you can set whether or not to save the original image as well as the transformed one.

1 (Rec.) Menu ▶ [Save Original] ▶ [On]/[Off]*.

See *Menus and Settings* (p. 23).

*Default setting.

- If [On] is selected, the two images will be numbered consecutively with the altered image following the original.

When [Save Original] is Set to [On]

- Only the transformed image displays in the LCD monitor while shooting in the Color Accent or Color Swap mode.
- The transformed image is reviewed in the LCD monitor after shooting in the Color Accent or Color Swap mode. If you erase the image at this point, the original image is erased along with the transformed image. Exercise adequate caution before deleting a file.
- Since two images are recorded with each shot, the number of shots remaining is approximately half the number displayed when this function is set to [Off].

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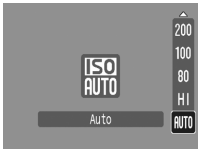
ISO Adjusting the ISO Speed

Shooting Mode

Raise the ISO speed to use a fast shutter speed when you wish to reduce the effects of camera shake or avoid blurry subjects, or to turn the flash off when shooting in a dark area.

1 Press the ISO button and use the ▲ or ▼ button to switch settings.



- You can advance to the next option each time you press the button: ISO AUTO / ISO Hi / ISO 50 / ISO 100 / ISO 200 / ISO 400 / ISO 800 / ISO 1600.
- Selecting ISO AUTO (Auto) sets the optimal ISO speed according to the light level when shooting. Since the ISO speed setting will automatically be raised in dark places, the camera will select a faster shutter speed and reduce the chances of camera shake.
- Selecting ISO Hi (High ISO Auto)* sets the sensitivity to a higher value than the ISO AUTO setting. This sets the shutter speed faster, reducing the potential for camera shake or blurry subjects compared with the ISO AUTO setting.
  * Noise in the recorded image may be higher than for the ISO AUTO setting.
- When in (Auto) shooting mode, only ISO AUTO or ISO Hi can be selected.

The camera automatically applies noise suppression processing when you shoot at a high ISO speed.

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Setting the Auto Rotate Function

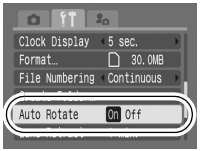
Shooting Mode

Your camera is equipped with an Intelligent Orientation sensor that detects the orientation of an image shot with the camera held vertically and automatically rotates it to the correct orientation when viewing it in the LCD monitor.

1 **(Set up) Menu ▶ [Auto Rotate] ▶ [On]*/ [Off].**

See *Menus and Settings* (p. 23).

*Default setting.



- When shooting and the Auto Rotate function is set to [On] and the LCD monitor is set to the detailed display mode, the (normal), (right end is down) or (left end is down) will appear in the display.

- This function may not operate correctly when the camera is pointed straight up or down. Check that the arrow is pointing in the right direction and if it is not, then set the Auto Rotate function to [Off].
- Even if the Auto Rotate function is set to [On], the orientation of images downloaded to a computer will depend upon the software used to download the images.

- When the camera is held vertically to shoot, the Intelligent Orientation sensor judges the upper end to be "up" and the lower end to be "down". It then regulates the optimal white balance, exposure and focus for vertical photography. This function operates regardless of the on/off status of the Auto Rotate function.

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Checking for Focus Right After Shooting

Shooting Mode

You can check whether the image is in focus right after it is recorded.

1 Shoot.

- The recorded image displays for about 2 seconds (or the interval set with the Review function p. 24).

2 Press (DISP.) (or (FUNC. SET)) while the image is displayed.

- The number of times the **DISP.** button is pressed depends upon the display settings for the LCD monitor (See below). Press the **DISP.** button repeatedly until the screen at the right appears.
- Displays as follows.
  - Camera is focused: AF frame for the image that has been shot displays in white, and an orange frame appears within the focused frame.
  - Camera is not focused: Image that has been shot displays, and an orange frame displays at the center of the image.
  - Contents of the orange frame can be confirmed at the bottom right.
  - Zoom can also be used (p. 73).
- You can switch between AF frames and change the display position (p. 68) using the **MENU** button or the **FUNC./SET** button.

To cancel: press the shutter button halfway.

- You can delete an image by pressing the 🗑 button while the image is displayed, except in the display position change mode (See *Basic Guide*, p. 19).
- Pressing the **DISP.** button will change the display on the LCD monitor as follows.
  Focus Confirmation ➔ Detailed ➔ No Information

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Switching between AF Frames/ Changing the Display Position

1 **Press (MENU).**

- If you are shooting with the AiAF mode set to [Face Detect] or [On] (p. 46) and have an image with multiple AF frames selected, you can switch the focus between AF frames each time you press the **MENU** button.

2 **Press (FUNC SET) and change the display position using the ←, →, ↑ or ↓ button.**

- The camera will enter the display position change mode. Change the display position using the ←, →, ↑ or ↓ button.
- Pressing the **MENU** button restores the original display position. If you have an image with multiple AF frames selected, the focus will switch between AF frames.
- Press the **FUNC./SET** button again to cancel the display position change mode.

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Creating an Image Destination (Folder)

Shooting Mode

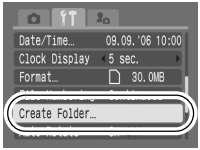
You can create a new folder at any time and the recorded images will be automatically saved to that folder.

Create New Folder	Creates a new folder the next time you shoot images. To create an additional folder, insert another check mark.
Auto Create	You can also specify a date and time if you wish to create a new folder using a shooting time after the specified date and time (p. 27).

Creates a folder the next time you shoot.

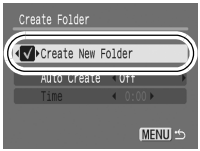
1 **(Set up) Menu ▶ [Create Folder].**

See *Menus and Settings* (p. 23).



2 **Use the ← or → button to add a check mark beside [Create New Folder] ▶ (MENU).**

- displays in the LCD monitor. The symbol will cease to display after the new folder is created.



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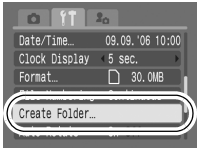
Setting the Day or Time for Automatic Folder Creation

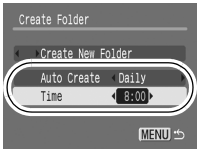
1 **(Set up) Menu ▶ [Create Folder].**

See *Menus and Settings* (p. 23).



2 **Select a day for the [Auto Create] option and a time in the [Time] option ▶ (MENU).**

- displays when the specified time arrives. The symbol will cease to display after the new folder is created.



Up to 2000 images can be saved into one folder. A new folder will automatically be created when you record more than that number even if you are not creating new folders.

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Resetting the File Number

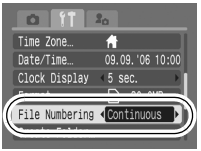
Shooting Mode

The images you shoot are automatically assigned file numbers. You can select how the file number is assigned.

1 **(Set up) Menu ▶ [File Numbering] ▶ [Continuous]*/[Auto Reset].**

See *Menus and Settings* (p. 23).

*Default setting.



File Number Reset Function

Continuous	A number one higher than the last one recorded is assigned to the next image. This is convenient for managing all your images together on a computer because you avoid file name duplication when changing folders or memory cards.* *When a blank memory card is used. If a memory card with recorded data is used, the 7-digit number for the last recorded folder and image is compared with the last one on the card, and the larger of the two is utilized as the basis for new images.
Auto reset	The folder and image number are reset to the starting value (100-0001).* This is convenient for managing images on a folder-by-folder basis. *When a blank memory card is used. If a memory card with recorded data is used, the number following the 7-digit number for the last recorded folder and image on the card is utilized as the basis for new images.

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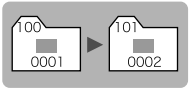
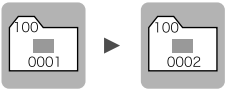
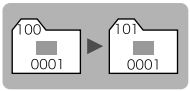
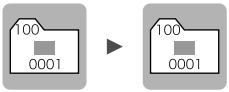
File and Folder Numbers

Recorded images are assigned consecutive file numbers starting with 0001 and ranging up to 9999, while folders are assigned numbers starting with 100 and ranging up to 999. Up to 2,000 images can be saved into a single folder.

	New Folder Created	Memory Card Exchanged for Another
Continuous	Memory Card 1 	Memory Card 1 Memory Card 2 
Auto Reset	Memory Card 1 	Memory Card 1 Memory Card 2 

- Images may be saved to a new folder when there is insufficient free space even if the total number of images in a folder is less than 2,000 because the following types of image are always saved together into the same folder.
  - Images from continuous shooting
  - Self-timer images (custom)
  - Stitch Assist mode images
  - Still images shot in Color Accent/Color Swap mode with the [Save Original] category set to [On]
- Images cannot be played back when the folder numbers are duplicated or image numbers are duplicated within folders.
- Please refer to the *Software Starter Guide* for information regarding folder structures or image types.

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Circling a fingertip to the left or right on the touch control dial selects an image as follows. Moving fingertip in a counterclockwise direction displays the previous image, and clockwise displays the next image.

Please also see the *Basic Camera User Guide* (p. 18).

Magnifying Images

1 Press the zoom lever toward Q.

- SET will display and a magnified portion of the image will display.
- Images can be magnified up to a factor of approximately 10x.

Approximate Location of the Displayed Area

2 Use the ←, →, ↑ or ↓ button to move around the image.

- If you press the **FUNC./SET** button while in magnified display, the camera switches to image advance mode and SET will display. You can use the ← or → button to advance to the next or previous image at the same level of magnification. Pressing the **FUNC./SET** button again cancels the image advance mode.
- You can change the magnification level with the zoom lever.

To Cancel the Magnified Display

Press the zoom lever toward . (You can also cancel it immediately by pressing the **MENU** button.)

Movie frames and index playback images cannot be magnified.

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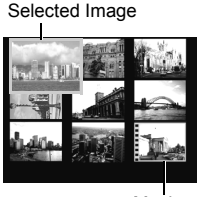
Viewing Images in Sets of Nine (Index Playback)

1 Press the zoom lever toward .

- Up to nine images can be viewed at once.
- Use the ◀, ▶, ▲ or ▼ button to change the image selection.



Switching between Sets of Nine Images

The jump bar will display if you press the zoom lever toward while in index playback and you can switch the display between sets of nine images.

- Use the ◀ or ▶ button to move to the previous or next set of nine images.
- Hold the **FUNC./SET** button down and press the ◀ or ▶ button to jump to the first or last set.

To Return to Single Image Playback

Press the zoom lever toward .

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Organizing Images by Category (My Category)

You can organize images into prepared categories (People, Scenery, Events, Category 1-3, To Do). At the category level, you can perform the following.

- Image searches (p. 76)
- Slide Show (p. 88)
- Protect (p. 93)
- Erase (p. 95)
- Configure print settings (p. 97)

1 (Play) Menu ▶ .

See Menus and Settings (p. 23).

- In Playback mode, you can press the button to display the screen in Step 2 directly.

2 Use the ← or → button to select an image to classify and the ↑ or ↓ button to select a category and press the (FUNC. SET) button.

- You can put the same image into more than one category.
- You can cancel the classification by pressing the **FUNC./SET** button again.

When working with images (for example, compiling a slide show, erasing or printing), it is convenient to categorize images in the [To Do] category.

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Jumping to Images

When you have many images recorded onto a memory card, it is handy to use the five search keys below to jump over images to find the object of your search.

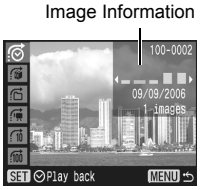
	Shot Date	Jumps to the first image of each shooting date.
	My Category	Jumps to the first image in each category.
	Folder	Jumps to the first image in each folder.
	Movie	Jumps to a movie.
	By 10 Images	Jumps over 10 images at a time.
	By 100 Images	Jumps over 100 images at a time.

1 In single image playback mode, press the button.

- The camera will switch to jump search mode.

2 Use the ▲ or ▼ button to select a search key.

- The screen sample will vary slightly according to the search key.
- You can show/hide image information using the **DISP.** button.



3 Display the Images.

- /: press the ◀ or ▶ button.

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- /// : use the ◀ or ▶ button to select date, category, folder or movie for playback and press the **FUNC./SET** button.
  - The camera will switch to defined playback mode and play back only images corresponding to the search key.
  - Press the button to cancel defined playback mode.

Select the search key

To Return to Single Image Playback

Press the **MENU** button.

The defined playback mode will be canceled under the following circumstances.

- When classifying categories
- When newly saving images with effects added using the My Colors function, and edited movies
- When images are deleted using [Erase] from the (Play) menu

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Viewing Movies

Movies cannot be played in the index playback mode.

1 Display a movie and press (FUNC. SET).

- Images with a SET icon are movies.

2 Select ▶ (Play) and press (FUNC. SET).

- The movie will pause if you press the **FUNC./SET** button during playback. It will resume when you press the button again.
- When playback ends, the movie stops at the last frame displayed. Press the **FUNC./SET** button to display the movie control panel.
- You can switch between showing/hiding the playback progress bar with the **DISP.** button while playing a movie.
- If playback was halted partway through in the prior viewing session, playback will resume from the last frame displayed.

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Operating the Movie Control Panel

	Ends playback and returns to single image playback
	Print (An icon will display when a printer is connected. See the *Direct Print User Guide* for details.)
	Play
	Slow Motion Playback (You can use the ◀ button to slow down or the ▶ button to speed up playback.)
	Displays the first frame
	Previous Frame (Rewinds if the **FUNC./SET** button is held down)
	Next Frame (Fast Forwards if the **FUNC./SET** button is held down)
	Displays the last frame
	Edit (Switches to movie editing mode) (p. 80)

- Use the television's controls to adjust the volume when playing a movie on a TV set (p. 103).
- The sound cannot be played in slow motion playback.

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Editing Movies

You can delete portions of recorded movies.

Protected movies and movies 1 second or less in duration cannot be edited.

1 **Select (Edit) in the movie control panel and press (FUNC./SET).**

- The movie editing panel and the movie editing bar will display.

2 **Use the ▲ or ▼ button to select (Cut Beginning) or (Cut End) and the ◀ or ▶ button to specify the cut point( ).**

- To check a temporarily edited movie, select (Play) and press the **FUNC./SET** button.
- Selecting (Exit) cancels the edit and restores the movie control panel.

3 **Select (Save) and press (FUNC./SET).**

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4 Select [New File] or [Overwrite] and press (FUNC. SET).

- [New File] saves the edited movie under a new file name. The pre-edit data is left unchanged.
  Note, if you press the **FUNC./SET** button while saving the movie, saving is canceled.
- [Overwrite] saves the edited movie with its original name. The pre-edit data is lost.
- When there is not enough space left on the memory card, only [Overwrite] can be selected.

It may take approximately 3 minutes to save an edited movie. If the battery runs out of charge partway through, edited movie clips cannot be saved. When editing movies, it is recommended to use a fully charged battery or the separately sold AC Adapter Kit ACK-DC30 (p. 125).

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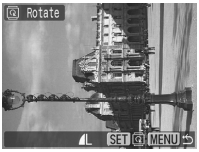
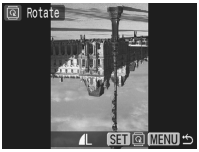
Rotating Images in the Display

Images can be rotated clockwise 90° or 270° in the display.



Original

90°



270°

1 **(Play) Menu ▶ .**

See *Menus and Settings* (p. 23).

2 **Use the ◀ or ▶ button to select an image to rotate and press (FUNC. SET) to rotate it.**

- Cycle through the 90°/270°/original orientations with each press of the **FUNC./SET** button.
- This also can be set in the index playback mode.

When images are downloaded to a computer, the orientation of images rotated by the camera will depend upon the software used to download the images.

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Playback with Transition Effects

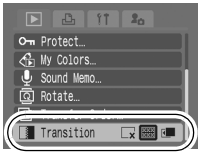
You can select the transition effect displayed when switching between images.

	Standard display.
	The displayed image darkens and the next image gradually brightens until it is displayed.
	Press the ◀ button to have the previous image display from the left and the ▶ button to have the next image display from the right.

1 **(Play) Menu** ▶ ▶ ▶ /*/ .

See Menus and Settings (p. 23).

*Default setting.



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Adding Effects with the My Colors Function

You can add effects to recorded images (stills only) using the My Colors function. The following selection of My Colors effects is available. For details, see p. 58.

My Colors Vivid	Vivid	My Colors Lighter Skin Tone	Lighter Skin Tone
My Colors Neutral	Neutral	My Colors Darker Skin Tone	Darker Skin Tone
My Colors Sepia	Sepia	My Colors Vivid Blue	Vivid Blue
My Colors B/W	B/W	My Colors Vivid Green	Vivid Green
My Colors Positive Film	Positive Film	My Colors Vivid Red	Vivid Red

1 **(Play) Menu ▶ .**

See Menus and Settings (p. 23).

2 **Use the ← or → button to select an image and press (FUNC. SET).**

3 **Use the ← or → button to select the My Colors type and press (FUNC. SET).**

- The displayed image will reflect the My Colors effect.
- You can press the zoom lever toward Q to check the image at a higher magnification. While the image is zoomed, you can press the **FUNC./SET** button to switch between the image transformed with the My Colors effect and the original non-transformed image.

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4 **Select [OK] and press (FUNC. SET).**

- The newly saved image transformed with the My Colors effect will be the last one in the list.
- To continue adding effects to other images, repeat the procedures from Step 2 onward.

5 **Press (MENU) and select [Yes] or [No], then press (FUNC. SET).**

- Selecting [Yes] displays the image transformed with the My Colors effect, while [No] returns you to the Play menu.

- The My Colors function will not work if there is insufficient space on the memory card.
- Although My Colors effects can be added any number of times to an image, the image quality will gradually deteriorate with each application and the intended colors may not be achieved.
- Color in images taken using My Colors (p. 58) in shooting mode and images edited with the My Colors function in playback mode may differ slightly.

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Attaching Sound Memos to Images

In playback mode (including single image playback and index playback), you can attach sound memos (up to one minute) to an image. The sound data is saved in the WAVE format.

1 **(Play) Menu ▶ .**

See *Menus and Settings* (p. 23).

2 **Use the ◀ or ▶ button to select an image to attach a sound memo to and press (FUNC SET).**

- The sound memo panel will display.

3 **Select (Record) and press (FUNC SET).**

- The elapsed time and the remaining time display.
- Pressing the **FUNC./SET** button pauses the recording. Pressing it again resumes recording.
- Up to one minute of recordings can be added to any one image.

Sound Memo Panel
Elapsed Time/ Remaining Time
Volume (Adjust with the ▲ or ▼ button)

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Sound Memo Panel

	Exit
	Record
	Pause
	Play
	Erase Select [Erase] in the confirmation screen and press the FUNC./SET button.

- You cannot attach sound memos to movies.
- Sound memos for protected images cannot be erased.

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Automated Playback (Slide Shows)

Automated playback of memory card images.

*Image settings for slide shows are based on the Digital Print Order Format (DPOF) standard (p. 97).

	All Images	Plays all images on a memory card in order.
	Date	Plays images bearing a specified date in order.
	My Category	Plays the images in the selected category in order.
	Folder	Plays images in a specified folder in order.
	Movies	Plays movie files only, in order.
	Stills	Plays still images only, in order.
1–3	**Custom 1–3**	Plays the images selected for each slide show, Custom 1, Custom 2 or Custom 3, in order (p. 91).

1 **(Play) Menu ▶ .**

See *Menus and Settings* (p. 23).

2 **Select , , , , , or 1–3.**

- , , : select a date, category or folder to to be played back (p. 90).
- 1, 2, 3: select the images to be played back (p. 91).
- If you want to add a transition effect to play back images, use the ▲ button to select [Effect] and choose the type of effect with the ◀ or ▶ button (See the next page).

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3 Select [Start] and press (FUNC SET).

- The following functions are available during slide shows.
  - Pausing/resuming the slide show: press the **FUNC./SET** button
  - Fast forwarding/rewinding the slide show: press the ◀ or ▶ button (continue to hold the button to switch between images more rapidly)
  - Stopping the slide show: press the **MENU** button.

Transition Effects

You can select the transition effect used when one image is replaced by another.

	Standard display.
	The new image gradually brightens as it moves upward from the bottom.
	The new image first appears in a cross shape and gradually expands to display the full image.
	Portions of the new image move horizontally, then the image expands to display the full image.

In single image playback mode, you can start a slide show from the current image displayed by holding the **FUNC./SET** button while you press the button. Please note that if you do this while the last image shot is displayed, the slide show will start from the first image using the same date.

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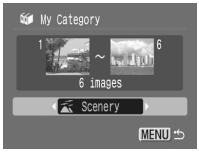
Select a date/category/folder to play back (/ /)

1 Select , or and press (FUNC. SET).

2 Use the ← or → button to select a date/category/folder to play back and press the (MENU) button.

Date



My Category

Folder

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Selecting Images for Playback (★1–★3)

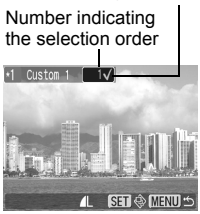
Select only the images that you wish to play back and save them as a slide show (Custom 1, 2 or 3). Up to 998 images can be selected. They will be played back in their order of selection.

1 Select ★1, ★2 or ★3 and press (FUNC SET).

- Only the ★1 icon will display at first. When you set ★1, the icon will change to ★1✓ and ★2 will display. ★2 and ★3 will change in the same way when they are set.

2 Use the ← or → button to move between images for playback and press (FUNC SET) to select or deselect them.

- You can also select images in the index playback mode.
- Pressing the **MENU** button completes the setting.



Selecting All Images

1 After selecting ★1–★3 in step 1, use the ↑ button to select [Mark all] and press the **FUNC./SET** button.
2 Use the ↑ button to select [Mark all], press the **FUNC./SET** button.
3 Use the → button to select [OK] and press the **FUNC./SET** button.

To deselect all images, select [Reset].

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Adjusting the Play Time and Repeat Settings

- **Play Time**

  Sets the duration that each image displays. Choose between 3*–10 seconds, 15 seconds and 30 seconds. Displaying time can vary slightly depending on the image.

  * Default setting.

- **Repeat**

  Sets whether the slide show stops when all the slides have been displayed or continues until stopped.

1 Select [Set up] and press (FUNC. SET).

2 Select [Play Time] or [Repeat] and then the desired option.

- Pressing the **MENU** button cancels the setting.

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Protecting Images

You can protect important images and movies from accidental erasure.

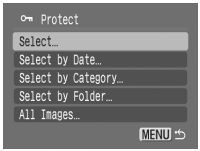
Select	You can configure the protection settings for each image singly while viewing them.
Select by Date	You can protect the images from a specified date.
Select by Category	You can protect the images in a specified category.
Select by Folder	You can protect the images in a specified folder.
All Images	You can protect all the images on a memory card.

1 **(Play) Menu ▶ .**

See *Menus and Settings* (p. 23).

2 **Select a menu item and press (FUNC. SET).**

- Proceed to Step 5 if you select [All Images].



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3 Select the image, date, category or folder to protect and press (FUNC. SET).

- **[Select]**
  Use the ◀ or ▶ button to select an image and press the **FUNC./SET** button.
  - Pressing the **FUNC./SET** button again cancels the setting.
  - You can also protect images in the index playback mode.
  - Press the **MENU** button to complete the setting.

Protection Icon

- **[Select by Date] [Select by Category] [Select by Folder]**
  Use the ▲ or ▼ button to select a date, category or folder and press the **FUNC./SET** button.
  - Pressing the **FUNC./SET** button again cancels the setting.
  - You can select multiple dates, categories or folders.
  - Use the ◀ or ▶ button to confirm each date, category or folder image.

4 For the [Select by Date], [Select by Category] and [Select by Folder] options, press (MENU).

5 Select [Protect] and press (FUNC. SET).

- Selecting [Unlock] cancels protection of the selected image and returns to Step 2.
- Selecting [Stop] cancels selection of the protected image and returns to Step 2.

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Erasing Images

You can erase images from a memory card.

Select	Erases images one at a time as you view them.
Select by Date	Erases images corresponding to the selected date.
Select by Category	Erases images in the selected category.
Select by Folder	Erases images in the selected folder.
All Images	Erases all images on a memory card.

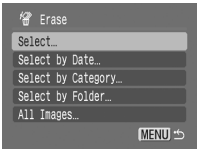
- Note that erased images cannot be recovered. Exercise adequate caution before erasing an image.
- Protected images cannot be erased with this function.

1 **(Play) Menu ▶ .**

See *Menus and Settings* (p. 23).

2 **Select a menu item and press (FUNC. SET).**

- Proceed to Step 5 if you select [All Images].



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3 Select the image, date, category or folder and press (FUNC. SET).

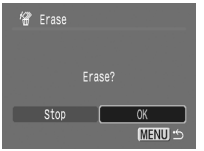
- **[Select]**
  Use the ◀ or ▶ button to select an image and press the **FUNC./SET** button.
  - Pressing the **FUNC./SET** button again cancels the setting.
  - You can also erase images in the index playback mode.
- **[Select by Date] [Select by Category] [Select by Folder]**
  Use the ▲ or ▼ button to select a date, category or folder and press the **FUNC./SET** button.
  - Pressing the **FUNC./SET** button again cancels the setting.

  - You can select multiple dates, categories or folders.
  - Use the ◀ or ▶ button to confirm each date, category or folder image.

4 Press (MENU).

5 Select [OK] and press (FUNC. SET).

- Selecting [Stop] or [Cancel] cancels selection of the image you are about to erase and returns to Step 2.
- Pressing the **FUNC./SET** button while erasing is in progress cancels the procedure.



Please format the memory card when you want to erase not only image data but also all the data contained on the card (p. 29).

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Setting the DPOF Print Settings

You can select images on a memory card for printing and specify the number of print copies in advance using the camera. The settings used on the camera comply with the Digital Print Order Format (DPOF) standards. This is extremely convenient for printing on a direct print compatible printer, or for sending the images to a photo developing service that supports DPOF.

The ⚠ icon may display for a memory card with print settings set by a different DPOF-compliant camera. These settings will be overwritten by those set by your camera.

Select Images & Qty.	Configures print settings for single images as you view them.
Select by Date	Configures print settings for images corresponding to the selected date.
Select by Category	Configures print settings for images in the selected category.
Select by Folder	Configures print settings for images in the selected folder.
Select All Images	Configures print settings for all images.
Clear All Selections	Removes all print settings from images.

Only one copy will be printed for each selected image.
With the [Select Images & Qty.] option, you can only set the number of copies to print when the [Print Type] option is set to [Standard] or [Both].

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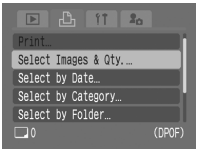
1 Set the mode dial to ▶ (playback) ▶ (Print) Menu ▶ Select a menu item ▶ (FUNC. SET).

See *Menus and Settings* (p. 23).



- Proceed to Step 4 if you select [Select All Images].

2 Select the image, date, category or folder to print and press (FUNC. SET).

- **[Select Images & Qty.]**
  Selection methods differ for the Print Type settings (p. 100).

Number of Print Copies

- **(Standard)/(Both)**
  Use the ◀ or ▶ button to select an image, press the **FUNC./SET** button and use the ▲ or ▼ button to select the number of print copies (up to 99).

- **(Index)**
  Use the ◀ or ▶ button to select an image and press the **FUNC./SET** button to select or deselect it.

Index Print Selection

- You can also select images in the index playback mode.
- Press the **MENU** button to complete the setting.

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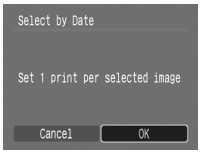
●**[Select by Date] [Select by Category] [Select by Folder]**
Use the ▲ or ▼ button to select a date, category or folder and press the **FUNC./SET** button.
- Pressing the **FUNC./SET** button again cancels the setting.

- You can select multiple dates, categories or folders.
- Use the ◀ or ▶ button to confirm each date, category or folder image.

3 For the [Select by Date], [Select by Category] and [Select by Folder] options, press (MENU).

4 Select [OK] and press (FUNC. SET).

●Selecting [Cancel] cancels print settings of the selected image and returns you to Step 1.



- The output of some printers or photo developing services may not reflect the specified print settings.
- Print settings cannot be set for movies.

- Images are printed in order according to the file number.
- A maximum of 998 images can be selected.
- If you are connected to a printer, the button will light blue while you are selecting images. You can start printing at this point by pressing the button, confirming that [Print] is selected and pressing the **FUNC./SET** button.

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Setting the Print Style

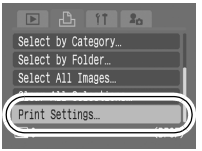
After setting the print style, select the image(s) to print. The following print settings can be selected.

*Default setting

Print Type	**Standard***	Prints one image per page.
	Index	Prints the selected images together at a reduced size in an index format.
	Both	Prints the images in both the standard and index formats.
Date (On/Off*)		Adds the date to the print.
File No. (On/Off*)		Adds the file number to the print.
Clear DPOF data (On*/Off)		Clears all print settings after the images print.

1 Set the mode dial to ▶ (playback) ▶ (Print) Menu ▶ [Print Settings].

See *Menus and Settings* (p. 23).



2 Select [Print Type], [Date], [File No.] or [Clear DPOF data] and then specify the settings.

- The Date and File No. settings change according to the Print Type as follows.
  - Index
    [Date] and [File No.] cannot be set to [On] at the same time.
  - Standard or Both
    [Date] and [File No.] can be set to [On] at the same time, however, the printable information may vary between printers.

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- Images with date imprints created by (Postcard Date Imprint Mode) (p. 38) will have the date imprinted regardless of the [Date] setting. Accordingly, the date may be printed twice if [Date] is set to [On].
- Dates print in the style specified in the [Date/Time] menu (p. 27).

Setting the DPOF Transfer Settings

You can use the camera to specify settings for images before downloading to a computer. Refer to the *Software Starter Guide* for instructions on how to transfer images to your computer.

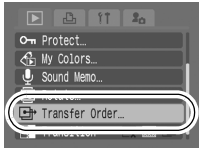
The settings used on the camera comply with the Digital Print Order Format (DPOF) standards.

The ⚠ icon may display for a memory card with transfer settings set by a different DPOF-compliant camera. These settings will be overwritten by those set by your camera.

Single Images

1 **(Play) Menu ▶ .**

See *Menus and Settings* (p. 23).



2 **Select [Order] and press (FUNC. SET).**

- Selecting [Reset] cancels all transfer order settings.

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3 Use the ← or → button to select an image to transfer and press (FUNC. SET).

- Pressing the **FUNC./SET** button again deselects the setting.
- You can also select images in the index playback mode.

Transfer Selection

All the Images on a Memory Card

1 (Play) Menu ▶ .

See *Menus and Settings* (p. 23).

2 Select [Mark all] and press (FUNC. SET).

- Selecting [Reset] cancels all transfer order settings.

3 Select [OK] and press (FUNC. SET).

- Images are transferred in order according to the file number.
- A maximum of 998 images can be selected.

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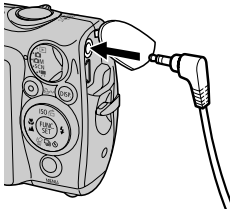
Viewing Images on a TV set

You can shoot or play back images on a television with the supplied AV cable.

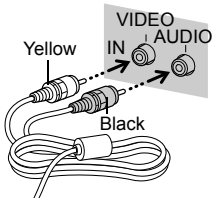
1 Turn off the Camera and the TV.

2 Connect the AV cable to the camera's A/V OUT terminal.

- Slip a fingernail under the bottom edge of the camera's DIGITAL terminal cover, lift up and plug the AV cable in all the way.



3 Plug the other ends of the AV cable to the VIDEO IN and AUDIO IN jacks on the TV.



4 Turn on the TV and switch it to video mode.

5 Turn on the camera.

The video output signal can be switched (NTSC or PAL) to accommodate different regional standards (p. 27). The default setting varies between regions.

- NTSC: Japan, U.S.A., Canada, Taiwan and others
- PAL: Europe, Asia (excluding Taiwan), Oceania and others

If the video system is set incorrectly, the camera output may not display properly.

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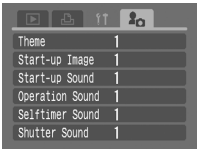
Customizing the Camera (My Camera Settings)

My Camera allows you to customize the start-up image and start-up, operation, self-timer and shutter sounds. You can change and register these settings, enabling you to customize the camera to suit your own tastes.

Changing My Camera Settings

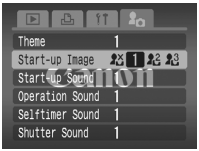
1 **(My Camera) Menu ▶ Menu item.**

See *Menus and Settings* (p. 23).



2 **Select the contents you wish to set.**

- Select [Theme] to set all to the same settings.



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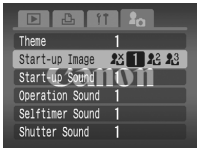
Registering My Camera Settings

Images recorded onto the memory card and newly recorded sounds can be added as My Camera settings to the 2 and 3 menu items. You can also use the supplied software to upload your computer's images and sounds to the camera.

A computer is required to restore the My Camera settings to the defaults. Use the supplied software (ZoomBrowser EX/ ImageBrowser) to restore the default settings to the camera.

1 Set the mode dial to ▶ (playback) ▶ (My Camera) Menu ▶ Menu item to register.

See *Menus and Settings* (p. 23).



2 Select 2 or 3 and press (DISP.).

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3 Select an image or record a sound.

- **Start-up Image**
  Use the ◀ or ▶ button to select the image you wish to register and press the **FUNC./SET** button.

- **Start-up, Operation, Self-timer and Shutter Sounds**
  Select ● (Record) and press the **FUNC./SET** button. After recording, select ↻ (Register) and press the **FUNC./SET** button.
  - Recording will automatically stop when the recording time elapses.
  - To play it, select ▶ (Play).
  - To exit instead of registering, press ↩ (Exit).

4 Select [OK] and press (FUNC SET).

- To cancel registering, select [Cancel].

- The following cannot be registered as My Camera settings.
  - Movies
  - Sounds recorded with the sound memo function (p. 86)
- The prior setting is erased when a new My Camera setting is added.

See the supplied *Software Starter Guide* for more information on creating and adding to the My Camera data.

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Camera

Camera will not operate.	
Power is not turned on.	●Press the ON/OFF button (*Basic Guide* p. 10).
Memory card slot/battery cover is open.	●Confirm that the memory card slot/ battery cover is securely closed (*Basic Guide* p. 7).
Battery charge insufficient to operate camera ("Change the battery pack" message displays).	●Insert a fully charged battery into the camera (*Basic Guide* p. 7). ●Use the AC Adapter Kit ACK-DC30 (sold separately) (p. 125).
Poor contact between camera and battery terminals.	●Polish the terminals with a soft cotton swab before charging or using the battery (p. 121).
Sounds come from the camera interior.	
The camera's horizontal/ vertical orientation was changed.	●The camera's orientation mechanism is operating. There is no malfunction.

When the power is turned on

"Card locked!" message appears.	
The SD memory card's and SDHC memory card's write protect tab is set to "Write protect".	●When recording to, erasing from or formatting the SD memory card and SDHC memory card, slide the write protect tab upward (p. 123).
The Date/Time menu appears.	
The built-in rechargeable lithium battery charge is low.	●Recharge the built-in battery immediately (*Basic Guide* p. 9).

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LCD monitor

Camera screen is black at start-up	
Incompatible image has been selected as the start-up image in the My Camera settings.	●Change the start-up image in the My Camera settings (p. 105) or use the supplied software program ZoomBrowser EX or ImageBrowser to restore the default settings.
The display darkens.	
The image in the LCD monitor will darken in strong sunlight or bright light.	●This is a normal occurrence in devices containing CCDs and does not constitute a malfunction. (This image will not be recorded when shooting still images, but it will be recorded when shooting movies.)
Display flickers.	
Display flickers when shot under fluorescent lighting.	●This is not a camera malfunction (flickering recorded in movies, but not in still images).
A bar of light (red, purple) appears on the LCD monitor.	
This may occur when shooting a bright subject, such as the sun or a light.	●This is a normal occurrence in devices containing CCDs and does not constitute a malfunction. This bar of light will not be recorded when shooting still images, but it will be recorded when shooting movies.
appears.	
A slow shutter speed has likely been selected because of insufficient lighting.	●Raise the ISO speed (p. 65) or set the flash to any setting other than (flash off) (*Basic Guide* p. 14), or secure the camera to something, such as a tripod.

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⚠ appears.	
This displays when using a memory card that has print settings, transfer settings or slide show image selections set by other DPOF-compliant cameras.	●Take note that these settings will be overwritten by those set by your camera (pp. 88, 97).

Noise displays./Subject's movements are irregular.	
Camera automatically lightened the image displayed on the LCD monitor to make it easier to see when shooting in a dark area (p. 14).	●There is no effect on the recorded image.

Shooting

Camera will not record.	
Mode dial is set to ▶ (playback).	●Set the mode dial to 📷, 📷M, SCN or 🎥 (*Basic Guide* p. 11).
Flash is charging.	●The indicator will light orange when it is charged. You can then shoot (*Basic Guide* p. 5).
Memory card is full.	●Insert a new memory card (*Basic Guide* p. 7). ●If required, download the images to a computer and erase them from the memory card to make space.
Memory card is not formatted correctly.	●Format the memory card (p. 29). ●If reformatting does not work, the memory card logic circuits may be damaged. Consult the nearest Canon Customer Support Help Desk.
SD memory card or SDHC memory card is write protected.	●Slide the write protect tab of the SD memory card or SDHC memory card upward (p. 123).

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Image Seen in Viewfinder vs. Recorded Image	
Usually the recorded image contains more of the scene than is seen in the viewfinder.	●Confirm the actual image size with the LCD monitor. Use the LCD monitor when taking close-up shots.
Image is blurred or out of focus.	
AF-assist Beam is set to [Off].	●In dark places where it is difficult for the camera to focus, the AF-assist Beam will emit to assist focusing. As the AF-assist Beam will not function when turned off, set it [On] to activate it (p. 24). Take care not to obstruct the AF-assist Beam with your hand when used.
The camera moves when the shutter button is pressed.	●Setting the self-timer to (2 seconds) delays the shutter release for 2 seconds and allows the camera to stop shaking, thus preventing a blurred image (*Basic Guide* p. 16). Even better results can be obtained by placing the camera on a stable surface or by using a tripod to shoot.
Subject is out of focal range.	●Shoot with the subject at the correct shooting distance (p. 129).
The subject is hard to focus on.	●Use the focus lock or AF lock to shoot (p. 47).

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Subject in recorded image is too dark.	
Insufficient light for shooting.	●Set the flash to (flash on) (*Basic Guide* p. 14).
The subject is underexposed because the surroundings are too bright.	●Set the exposure compensation to a positive (+) setting (p. 52). ●Use AE lock or use the spot metering function (pp. 49, 51).
Subject is too far away for flash to reach.	●Shoot within correct shooting distance of the subject when using the built-in flash (p. 130). ●Raise the ISO speed and then shoot (p. 65).
Subject in recorded image is too bright, or image flashes white.	
Subject is too close, making the flash too strong.	●Shoot within correct shooting distance of the subject when using the built-in flash (p. 130).
The subject is overexposed because the surroundings are too dark.	●Set the exposure compensation to a negative (-) setting (p. 52). ●Use AE lock or use the spot metering function (pp. 49, 51).
Too much light is shining directly into the camera, or is being reflected off the subject.	●Change the shooting angle.
Flash is set to on.	●Set the flash to (flash off) (*Basic Guide* p. 14).
Image contains noise.	
ISO speed is too high.	●Higher ISO speeds and the (High ISO Auto) setting may increase image noise. For higher image quality, select as low an ISO speed as possible (p. 65). ●In , , , , , , and modes, the ISO speed increases and noise can appear.

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White dots appear on the image.	
Light from the flash has reflected off dust particles or insects in the air. This is particularly noticeable when shooting using the wide angle.	●This is a phenomenon that occurs with digital cameras and does not constitute a malfunction.
Eyes appear red.	
Light is reflected back from the eyes when the flash is used in dark areas.	●Set the [Red-Eye] function to [On] and shoot (p. 33). For this mode to be effective, the subject must be looking right at the red-eye reduction lamp. Try asking them to look directly at the lamp. Even better results can be obtained by increasing the lighting in indoor settings or approaching closer to the subject. The shutter will not activate for approximately 1 second after the red-eye reduction lamp fires in order to improve the effect.
Continuous shooting slows down.	
The memory card's performance has dropped.	●To enhance the continuous shooting performance, you are recommended to format (Low Level Format) the memory card in the camera after you save all its images to your computer (p. 29).
Recording images to memory card takes a long time.	
Memory card was formatted in another device.	●Use a memory card formatted in your camera (p. 29).
Lens will not retract.	
Memory card slot/battery cover was opened with power on.	●First close the memory card slot/ battery cover and then turn the power on and then off again. (*Basic Guide* p. 7).

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Shooting Movies

The recording time may not display properly or shooting may stop unexpectedly.	
The following types of memory cards are used. - Slow recording cards. - Cards formatted on a different camera or a computer. - Cards which have had images recorded and erased repeatedly.	●Although the recording time may not display properly during shooting, the movie will be recorded correctly on the memory card. Recording time will display properly if you format the memory card in this camera (excluding slow recording memory cards) (p. 29).
"!" displayed on the LCD monitor in red and shooting automatically stopped.	
There is insufficient free space in the camera's built-in memory.	● Try the following procedures. - Format the card with a low level format before shooting (p. 29). - Lower the recording pixels or frame rate (p. 43). - Use a high-speed memory card (SDC-512MSH, etc.).
Zoom does not operate.	
Zoom lever was pressed while shooting in movie mode.	●Operate the zoom before shooting in movie mode (*Basic Guide* p. 14). Note the digital zoom is available while shooting, but only in Standard movie mode (p. 35).

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Playback

Cannot play back.	
You attempted to play back images shot with another camera or images edited with a computer.	●Computer images that cannot be played back will play back if they are added to the camera using the supplied software program ZoomBrowser EX or ImageBrowser.
File name was changed with a computer or file location was changed.	●Set the file name or location on the file format/structure of the camera. (Refer to the *Software Starter Guide* for details).

Movies cannot be edited.
Some movies shot with another camera cannot be edited.

Movies do not play back correctly.
Movies recorded with high recording pixels and frame rates may momentarily stop playing if played on slow reading memory cards.
You may experience frame dropping and audio breakup when playing back a movie on a computer with insufficient system resources.

Reading images from memory card is slow.	
Memory card was formatted in another device.	●Use a memory card formatted in your camera (p. 29).

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Battery/Battery Charger

Battery consumed quickly.	
Battery life exceeded if battery loses its charge quickly at normal temperature (23 °C/73 °F).	●Replace the battery with a new one (*Basic Guide* p. 7).
Battery will not charge.	
Battery life exceeded.	●Replace the battery with a new one (*Basic Guide* p. 7).

TV monitor output

Image is distorted or not showing on TV monitor.	
Incorrect video system setting.	●Set the video system to the appropriate setting, NTSC or PAL, for your TV (p. 27).
Shooting in Stitch Assist mode.	●The output will not appear on a TV in Stitch Assist mode. Cancel the Stitch Assist mode (*Basic Guide* p. 12).

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Printing on Direct Print Compatible Printers

Cannot print.	
Camera and printer not properly connected.	●Attach the camera to the printer securely with the supplied cable.
Printer power is off.	●Turn on the printer.
Incorrect print connection.	●In the (Set up) menu, select [Print Method] and select [Auto] (p. 27).

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List of Messages

The following messages may appear on the LCD monitor during shooting or playback. Please refer to the *Direct Print User Guide* for the messages that display during a printer connection.

Busy...

- Image is being recorded to, or read from, memory card. The playback mode is starting up.

No memory card

- You turned on the camera without a memory card installed, or with a memory card installed in the wrong orientation (*Basic Guide*, p. 7).

Card locked!

- The SD memory card or SDHC memory card is write-protected.

Cannot record

- You attempted to shoot an image without a memory card installed in the camera or with a memory card incorrectly installed in the wrong orientation, or you attempted to attach a sound memo to a movie.

Memory card error

- The memory card may be malfunctioning. Some malfunctioning memory cards may be fixed by formatting them in this camera. However, if this error message appears even when using the supplied memory card, contact your Canon Customer Support Help Desk as there may be a problem with the camera.

Memory card full

- Memory card is full of images and no more can be recorded or saved. Or no more image settings or sound memos can be recorded.

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Naming error!

- The file name could not be created because there is a file with the same name as the folder that the camera is attempting to create, or the highest possible file number has already been reached. In the Set up menu, set the File Numbering option to [Auto Reset]; alternatively, save all the images you wish to retain onto a computer, then reformat the memory card. Please note that formatting will erase all the existing images and other data.

Change the battery pack.

- Battery charge is insufficient to operate the camera. Replace it at once with a charged one or recharge the battery.

No image.

- No images recorded on memory card.

Image too large.

- You attempted to play back an image larger than 4992 x 3328 pixels or with a large data size.

Incompatible JPEG format.

- You attempted to play back an incompatible JPEG image (such as those edited on computers).

RAW

- You attempted to play back a RAW image.

Unidentified Image

- You attempted to play back a corrupted image, an incompatible image (proprietary format used by another manufacturer's camera, etc.), an image edited on a computer or a movie clip recorded by another camera.

Cannot magnify!

- You attempted to magnify an image recorded in a different camera or data type, an image edited with a computer, or a movie.

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Cannot rotate

- You attempted to rotate an image recorded in a different camera or data type, or an image edited with a computer.

Incompatible WAVE format.

- A sound memo cannot be added to this image since the data type of the existing sound memo is incorrect.

Cannot register this image!

- You attempted to register an image recorded in a different camera or a movie as a start-up image.

Cannot modify image

- You attempted to apply a My Colors effect to a movie or an image recorded in a different camera.

Cannot assign to category

- You attempted to categorize an image recorded in a different camera.

Cannot transfer!

- When transferring images to your computer using the Direct Transfer menu, you attempted to select an image with corrupted data or an image taken with a different camera or data type. You may have also attempted to select a movie when [Wallpaper] was selected in the Direct Transfer menu.

Protected!

- You attempted to erase or edit a protected image, movie or sound memo.

Too many marks.

- Too many images have been marked with print settings, transfer settings or slide show settings. Cannot process any more.

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Cannot complete!

- Could not save a part of the print, transfer or slide show settings.

Unselectable image.

- You attempted to set the print settings for a non-JPEG image.

Communication error

- The computer was unable to download the image due to the large amount of images (approx. 1000) stored on the memory card.

Lens error, restart camera

- Camera detected an error while moving the lens and cut the power automatically. This error message may appear if you press on the lens while it is moving or turn on the camera in a dusty or sandy environment. Turn on the camera again and shoot or playback images. Take the camera to a service center if this message appears frequently because there may be a problem with the lens.

Exx

- (xx: number) Camera detected an error. Turn the power off and then back on, then shoot or play back. A problem exists if the error code reappears. Note the number and contact your Canon Customer Support Help Desk. If an error code displays directly after taking a picture, the shot may not have been recorded. Check image in playback mode.

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Battery Handling

Battery Charge

The following icon and message will display.

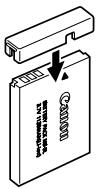
Battery charge is low. Recharge it as soon as possible it will be used for an extended period.	**Change the battery pack** Battery charge is insufficient to operate the camera. Replace the battery immediately.

Battery Handling Precautions

- **Keep the battery terminals clean at all times.**
  Dirty terminals may cause poor contact between the battery and camera. Polish the terminals with a soft cotton swab before charging or using the battery.
- **At low temperatures, battery performance may be reduced and the low battery icon ( ) may appear earlier than usual.**
  Under these conditions, revive the battery by warming it in a pocket immediately before use.
- **However, ensure that there are no metallic items in the pocket that could cause a short circuit, such as a key ring, etc.**
  The battery may be short circuiting.
- **Do not allow any metal objects such as key rings to touch the (⊕) and (⊖) terminals (Fig. A). To carry the battery or store it during periods of disuse, always replace the terminal cover (Fig. B).**
  These conditions can damage the battery.

Fig. A

Fig. B



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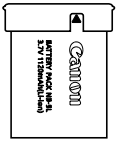
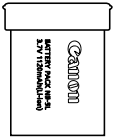
You may be able to check the charge state depending upon how the terminal cover is attached (Fig. C, D).

Fig. C



Charged Battery
Attach it so the ▲ is visible

Fig. D



Spent Battery
Attach it the opposite way to Fig. C.

- **You are recommended to use it in the camera until it is completely discharged and to store it in an indoor location with low relative humidity and between the temperatures of 0 – 30 °C (32 – 86 °F).**

  Storing a fully charged battery for long periods of time (about one year) may shorten its life cycle or affect its performance. If you do not use the battery for long periods of time, charge it fully and discharge it fully in the camera about once a year before returning it to storage.

Charging the Battery

- **Since this is a lithium-ion battery, you need not completely discharge it before recharging.**
- **It takes approximately 2 hours 5 minutes to fully charge the battery from a depleted state (based on Canon's testing standards).**
  - Charging it within a temperature range of 5 – 40 °C (41 – 104 °F) is recommended.
  - Charge times may vary according to the ambient temperature and the battery's charge state.
- **You are advised to charge the battery on the day of use, or one day before, to ensure a full charge.**

  Even charged batteries continue to discharge naturally.
- **If the performance of the battery diminishes substantially even when it is fully charged, its life has been exceeded and it should be replaced.**

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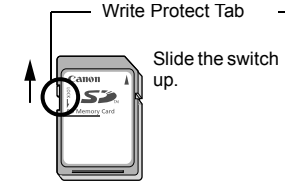
Handling the Memory Card

SD Memory Card and SDHC Memory Card Write Protect Tab


Write Protect Tab
Slide the switch up.
Slide the switch down (you can protect the images and other data on the card)
Writing/Erasing Possible
Writing/Erasing Impossible

Cautions When Handling

- **Memory cards are high-precision electronic devices. Do not bend them, apply force to them, or subject them to shocks or vibration.**
- **Do not attempt to disassemble or alter the memory card.**
- **Do not allow dirt, water or foreign objects to contact the terminals on the back of the card. Do not touch the terminals with your hands or metal objects.**
- **Do not peel away the original label on the memory card or cover it with another label or sticker.**
- **When writing on the memory card, do not use a pencil or ball-point pen. Only use a soft point pen (e.g. felt-tip pen).**
- **Do not use or store memory cards in the following locations.**
  - Locations subject to dust or sand
  - Locations subject to high humidity and high temperatures
- **Since some or all of the data recorded on the memory card may be corrupted or erased by electrical noise, static electricity, or camera or card malfunction, making a backup copy of important data is recommended.**

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Formatting

- **Please note that formatting (initializing) an memory card erases all data, including protected images.**
- **You are recommended to use memory cards that have been formatted in your camera.**
  - The card supplied with the camera may be used without further formatting.
  - When the camera is malfunctioning, a corrupted memory card might be the cause. Reformatting the memory card may solve the problem.
  - When a non-Canon brand memory card is malfunctioning, reformatting it may solve the problem.
  - Memory cards formatted in other cameras, computers, or peripheral devices may not operate correctly in this camera. When that happens, reformat the memory card with this camera.
- **If formatting in the camera does not work properly, turn the camera off and re-insert the memory card. Then turn the camera back on and format again.**
- **Data on a card is not completely erased even when the card is formatted or images are erased because these processes merely change the file management data. Please note this fact when transferring ownership or disposing of cards. Take care to destroy the card when disposing of it to prevent the leakage of personal data.**

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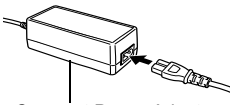
Using an AC Adapter Kit (Sold Separately)

It is best to power the camera with AC Adapter Kit ACK-DC30 (sold separately) when you are using it for long periods of time or connecting it to a computer.

Turn the camera power off before connecting or disconnecting the AC adapter.

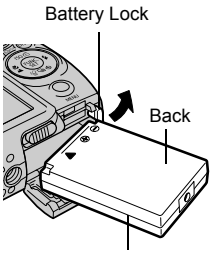
1 **Connect the power cord to the compact power adapter first and then plug the other end into the power outlet.**



Compact Power Adapter CA-DC10

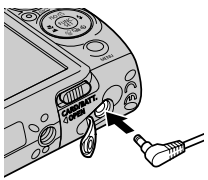
2 **Slide the lock release switch and open the memory card slot/battery cover, then insert the DC coupler until it is locked.**

- Slide the memory card slot/battery cover closed.



DC Coupler DR-30

3 **Open the DC coupler terminal cover and attach the cord to the DC terminal.**



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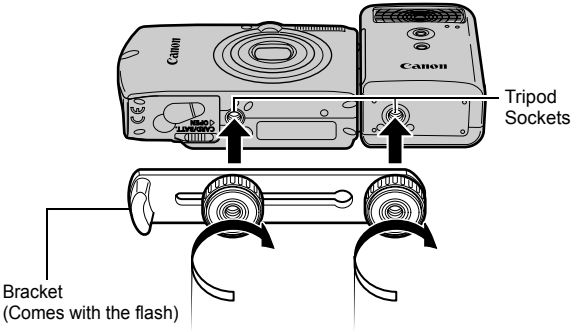
Using an Externally Mounted Flash (Sold Separately)

High-Power Flash HF-DC1

This flash is used to supplement the camera's built-in flash when the subject is too far away for proper illumination. Use the following procedures to affix the camera and High-Power Flash to the supporting bracket.

Please read the instructions accompanying the flash along with this explanation.



- The flash charge time will lengthen as the battery charge gets weaker. Always set the power/mode switch to [OFF] when you finish using the flash.
- Be careful not to touch the flash window or sensor windows with your fingers while the flash is in use.
- The flash may fire if another flash is being used in close proximity.
- The High-Power Flash may not fire outdoors in daylight or when there are no reflective items.
- For continuous shooting, although the flash fires for the first shot, it does not fire for subsequent shots.
- Fasten the attachment screws securely so that they do not loosen. Failure to do so may lead to the dropping of the camera and flash resulting in damage to both.

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- Before attaching the bracket to the flash, check that the lithium battery (CR123A or DL123) is installed.
- To illuminate the subjects properly, install the flash so that it is up against the side of the camera and parallel with the camera's front panel.
- A tripod can be used even when the flash is attached.

Batteries

●Charge becomes Severely Limited

If the battery usage time has considerably diminished, wipe the battery terminals well with a dry cloth. The terminals may be dirty from fingerprints.

●Usage in Cold Temperatures

Get a spare generic lithium battery (CR123A or DL123). You are recommended to place the spare battery in your pocket to warm it up before switching it for the battery in the flash.

●Non-Use over Extended Periods

Leaving batteries in the High-Power Flash could allow the battery fluid to leak, damaging the product. Remove the batteries from the High-Power Flash and store them in a cool, dry place.

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Camera Care and Maintenance

Never use thinners, benzine, synthetic cleansers or water to clean the camera. These substances may distort or damage the equipment.

Camera Body

Gently wipe dirt off the camera body with a soft cloth or eyeglass lens wiper.

Lens

First use a lens blower brush to remove dust and dirt, then remove any remaining dirt by wiping the lens lightly with a soft cloth.

Never use synthetic cleansers on the camera body or lens. If dirt remains, contact the closest Canon Customer Support Help Desk as listed on rear of the European Warranty System (EWS) Booklet.

Viewfinder and LCD Monitor

Use a lens blower brush to remove dust and dirt. If necessary, gently wipe with a soft cloth or an eyeglass lens wiper to remove stubborn dirt.

Never rub or press strongly on the LCD monitor. These actions may damage it or lead to other problems.

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Specifications

All data is based on Canon's standard testing methods. Subject to change without notice.

DIGITAL IXUS 900 Ti

(W): Max. wide angle (T): Max. telephoto

Camera Effective Pixels	Approx. 10.0 million
Image Sensor	1/1.8-inch CCD (Total number of pixels: Approx. 10.4 million)
Lens	7.7 (W) – 23.1 (T) mm (35mm film equivalent: 37 (W) – 111 (T) mm) f/2.8 (W) – f/4.9 (T)
Digital Zoom	Approx. 4.0x (Up to approx. 12x in combination with the optical zoom)
Optical Viewfinder	Real-image zoom viewfinder
LCD Monitor	2.5-inch, low-temperature polycrystalline silicon TFT color LCD, approx. 230,000 pixels (Picture coverage 100%)
AF System	TTL autofocus AiAF(Face Detect/9-point)/AF(1-point fixed to center)
Shooting Distance (From the front of the lens)	Normal: 50 cm (1.6 ft.) – infinity Macro: 5 – 50 cm (W)/30 – 50 cm (T) (2.0 in. – 1.6 ft. (W)/12 in. – 1.6 ft. (T)) Infinity: 3 m (9.8 ft.) – infinity
Shutter	Mechanical shutter + electronic shutter
Shutter Speeds	15 – 1/2000 sec. The shutter speed varies according to the shooting mode. Slow shutter speeds of 1.3 sec. or slower operate with noise reduction.
Metering System	Evaluative, Center-weighted average or Spot (fixed to center)
Exposure Compensation	± 2 stops in 1/3-stop increments

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ISO Speed*1	Auto*2, High ISO Auto*2, ISO 80/100/200/400/800/1600 *1 Standard Output Sensitivity, Recommended Exposure Index. *2 Camera automatically sets the optimal speed.
White Balance	Auto, Day Light, Cloudy, Tungsten, Fluorescent or Fluorescent H or Custom
Built-in Flash	Auto*, On*, Off * Red-Eye, FE Lock, Slow Synchro setting available
Flash Range	Normal: 50 cm – 5.1 m (1.6 – 17 ft.) (W), 50 cm – 3.1 m (1.6 – 10 ft.) (T) (When ISO speed is set to AUTO.)
Shooting Modes (Still images)	Auto, Manual1, Digital macro2, Color Accent2, Color Swap2, Stitch assist2, Special Scene3, 1 Long shutter mode available 2 Selectable in Manual mode. 3 Portrait, Night Snapshot, Kids&Pets, Indoor, Foliage, Snow, Beach, Fireworks, Aquarium, Underwater, ISO3200
(Movies)	Standard, High Resolution, Compact, Color Accent, Color Swap
Continuous Shooting	Approx. 2.1 shots/sec. (Large/Fine mode)
Self-timer	Activates shutter after an approx. 10-sec./approx. 2-sec. delay, Custom Timer
Recording Media	SD memory card/SDHC memory card/MultiMediaCard
File Format	Design rule for camera file system and DPOF compliant
Data Type (Still images)	Exif 2.2 (JPEG)*
(Movies)	Sound memos: WAVE (Monaural) AVI (Image data: Motion JPEG; Audio data: WAVE (Monaural)) * This digital camera supports Exif 2.2 (also called “Exif Print”). Exif Print is a standard for enhancing the communication between digital cameras and printers. By connecting to an Exif Print-compliant printer, the camera’s image data at the time of shooting is used and optimized, yielding extremely high quality prints.
Compression	Superfine, Fine, Normal

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Number of Recording Pixels (Still Images)	Large: 3648 x 2736 pixels Medium 1: 2816 x 2112 pixels Medium 2: 2272 x 1704 pixels Medium 3: 1600 x 1200 pixels Small: 640 x 480 pixels Postcard: 1600 x 1200 pixels Widescreen: 3648 x 2048 pixels
Number of Recording Pixels (Movies)	Standard, Color Accent, Color Swap: 640 x 480 pixels (30 frames/sec., 15 frames/sec.) 320 x 240 pixels (30 frames/sec., 15 frames/sec.) High Resolution: 1024 x 768 pixels (15 frames/sec.) Recording can continue until the memory card is full* (can record up to a maximum of 4 GB** at one time). Compact: (can record for 3 min.) 160 x 120 pixels (15 frames/sec.) * Using super high-speed memory cards (SDC-512MSH recommended). **Even if the clip size has not reached 4 GB, recording will stop at the moment the clip length reaches 1 hour. Depending on the volume and data writing speed of the memory card, recording may stop before reaching 1 hour or before the recorded data volume has reached 4 GB.
Playback Modes	Single (histogram displayable), Index (9 thumbnail images), Magnified (approx. 10x (max.) in LCD monitor, advance or reverse through magnified images possible), My Category, Jump (jumps to every tenth or hundredth image, to the first image of those sharing a certain shooting date, to the first image of each category, to the first image in a folder or movies. In index playback mode, it displays 9 images at once.), Sound memos (up to 1 min.), Slide show, My Colors or Movie (edit/slow motion play back possible).
Direct Print	*PictBridge* compliant, and *Canon Direct Print* and *Bubble Jet Direct* compatible
My Camera Settings	Start-up image, start-up sound, operation sound, self-timer sound, and shutter sound.

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Interface	USB 2.0 Hi-Speed (mini-B), PTP (Picture Transfer Protocol) Audio/Video output (NTSC or PAL selectable, monaural audio)
Power Source	Battery Pack NB-5L (Lithium-ion Rechargeable battery) AC Adapter Kit ACK-DC30
Operating Temperatures	0 – 40 °C (32 – 104 °F)
Operating Humidity	10 – 90%
Dimensions (Excluding protrusions)	91.2 x 59.6 x 28.2 mm (3.59 x 2.35 x 1.11 in.)
Weight (camera body only)	Approx. 165 g (5.82 oz.)

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Battery Capacity (Battery Pack NB-5L (Fully charged))

Number of Images Shot		Playback Time
LCD Monitor ON (Based on the CIPA standard)	LCD Monitor Off	
Approx. 230 images	Approx. 700 images	Approx. 6 hours

- The actual figures will vary according to the shooting conditions and settings.
- Movie data is excluded.
- At low temperatures, the battery performance may diminish and the low battery icon may appear very rapidly. In these circumstances, the performance can be improved by warming the battery in a pocket before use.

Test Conditions

Shooting: Normal temperature (23 °C ± 2 °C/73 °F ± 3.6 °F), normal relative humidity (50% ± 20%), alternating wide angle end and telephoto end shots at 30 second intervals with the flash fired once every two shots and the camera power turned off after every tenth shot. Power is left off for a sufficient amount of time*, then the power is turned back on and the testing procedure is repeated.

- A Canon-brand memory card is used.

*Until the battery returns to normal temperature

Playback: Normal temperature (23 °C ± 2 °C/73 °F ± 3.6 °F), normal relative humidity (50% ± 20%), continuous playback at 3 seconds per image.

See *Battery Handling Precautions* (p. 121).

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Memory Cards and Estimated Capacities

: Card included with the camera

Recording Pixels	Compression	32MB	SDC-128M	SDC-512MSH
L (Large) 3648 x 2736 pixels	S	6	29	116
		11	50	194
		24	103	402
M1 (Medium 1) 2816 x 2112 pixels	S	10	45	176
		17	75	292
		36	156	603
M2 (Medium 2) 2272 x 1704 pixels	S	14	61	237
		25	109	425
		51	217	839
M3 (Medium 3) 1600 x 1200 pixels	S	28	121	471
		51	217	839
		97	411	1590
S (Small) 640 x 480 pixels	S	109	460	1777
		168	711	2747
		265	1118	4317
(PostCard) 1600 x 1200 pixels		51	217	839
W (Widescreen) 3648 x 2048 pixels	S	9	40	157
		15	66	257
		32	139	539

- Capable of smooth continuous shooting (p. 37) when card has been formatted with a low level format.
- This reflects standard shooting criteria established by Canon. Actual results may vary according to the subject and shooting conditions.

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Movie

	Recording Pixels	Frame Rate	32MB	SDC-128M	SDC-512MSH
Standard	640 x 480 pixels	30	14 sec.	1 min. 4 sec.	4 min. 9 sec.
		15	30 sec.	2 min. 7 sec.	8 min. 14 sec.
Color Accent	320 x 240 pixels	30	42 sec.	3 min. 1 sec.	11 min. 42 sec.
Color Swap		15	1min. 24 sec.	5 min. 55 sec.	22 min. 53 sec.
High Resolution	1024 x 768 pixels	15	14 sec.	1 min. 4 sec.	4 min. 9 sec.
Compact	160x 120 pixels	15	3 min. 26 sec.	14 min. 29 sec.	55 min. 57 sec.

* Maximum movie clip length at : 3 min. The figures indicate the maximum continuous recording time.

Image Data Sizes (Estimated)

Recording Pixels	Compression		
	S		
L (3648 x 2736 pixels)	4100 KB	2460 KB	1170 KB
M1 (2816 x 2112 pixels)	2720 KB	1620 KB	780 KB
M2 (2272 x 1704 pixels)	2002 KB	1116 KB	556 KB
M3 (1600 x 1200 pixels)	1002 KB	558 KB	278 KB
S (640 x 480 pixels)	249 KB	150 KB	84 KB
(1600 x 1200 pixels)	–	558 KB	–
W (3648 x 2048 pixels)	3040 KB	1847 KB	874 KB

	Recording Pixels	Frame Rate	File size
Standard	640 (640 x 480 pixels)	30	1920 KB/sec.
		15	960 KB/sec.
Color Accent	320 (320 x 240 pixels)	30	660 KB/sec.
Color Swap		15	330 KB/sec.
High Resolution	1024 (1024 x 768 pixels)	15	1980 KB/sec.
Compact	160 (160 x 120 pixels)	15	120 KB/sec.

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SD Memory Card

Interface	Compatible with SD memory card standards
Dimensions	32.0 x 24.0 x 2.1 mm (1.26 x 0.94 x 0.08 in.)
Weight	Approx. 2 g (0.07 oz.)

MultiMediaCard

Interface	Compatible with MultiMediaCard standards
Dimensions	32.0 x 24.0 x 1.4 mm (1.26 x 0.94 x 0.06 in.)
Weight	Approx. 1.5 g (0.05 oz.)

Battery Pack NB-5L

Type	Lithium-ion Rechargeable battery
Nominal Voltage	3.7 V DC
Typical Capacity	1120 mAh
Cycle Life	Approx. 300 times
Operating Temperatures	0 – 40 °C (32 – 104 °F)
Dimensions	32.0 x 44.9 x 7.9 mm (1.26 x 1.77 x 0.31 in.)
Weight	Approx. 25 g (0.88 oz.)

Battery Charger CB-2LX/CB-2LXE

Rated Input	100 – 240 V AC (50/60 Hz) 0.085 A (100 V) – 0.05 A (240 V)
Rated Output	4.2 V DC, 0.7 A
Charging Time	Approx. 2 hour 5 minutes
Operating Temperatures	0 – 40 °C (32 – 104 °F)
Dimensions	57.5 x 81.6 x 21.0 mm (2.26 x 3.21 x 0.83 in.)
Weight	Approx. 65 g (2.29oz.) (CB-2LX) Approx. 59 g (2.08 oz.) (CB-2LXE) (excluding power cord)

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Compact Power Adapter CA-DC10

(Included with the separately sold AC Adapter Kit ACK-DC30)

Rated Input	100 – 240 V AC (50/ 60 Hz)
Rated Output	4.3 V DC, 1.5 A
Operating Temperatures	0 – 40 °C (32 – 104 °F)
Dimensions	42.6 x 104.4 x 31.4 mm (1.68 x 4.11 x 1.24 in.)
Weight (excluding power cord)	Approx. 180 g (6.35 oz.)

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- The SDHC logo is a trademark.

This product is not intended to be serviced. Should the product cease to function in its intended manner, it should be returned to the manufacturer or be discarded.

This power unit is intended to be correctly orientated in a vertical or floor mount position.

IMPORTANT SAFETY INSTRUCTIONS-SAVE THESE INSTRUCTIONS.
DANGER-TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS.
For connection to a supply not in the U.S.A., use an attachment plug adapter of the proper configuration for the power outlet.

This battery charger is for exclusive use with Battery Pack NB-5L (1.12 Ah). There is a danger of explosion if other battery packs are used.

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Functions Available in Each Shooting Mode

The chart below is a reference for the settings available for various shooting conditions. The settings selected in each shooting mode are saved after you finish shooting.

Function										Page
Recording Pixels	Large	L	●	●	●	●	▲	●(1)	–	p. 30
	Medium 1	M1	❍	❍	❍	❍	△	❍(1)	–	
	Medium 2	M2	❍	❍	❍	❍	△	❍(1)	–	
	Medium 3	M3	❍	❍	❍	❍	△	❍	–	
	Small	S	❍	❍	❍	❍	△	❍(1)	–	
	Postcard		❍	❍	–	❍	–	❍(1)	–	
	Widescreen	W	❍	❍	–	❍	–	❍(1)	–	
	Movie		–	–	–	–	–	–	❍(2)	p. 43
Compression	Super Fine	S	❍	❍	❍	❍	△	❍	–	p. 30
	Fine		●	●	●	●	▲	●	–	
	Normal		❍	❍	❍	❍	△	❍	–	
Frame Rate			–	–	–	–	–	–	❍(3)	p. 43
Flash(4)	Auto		●	❍	–	❍	–	❍	–	Basic p. 14
	On		–	❍	–	❍	△	❍	–	
	Off		❍	●	●	●	▲	❍	–	
Slow Synchro			–	❍	–	–	△	–	–	p. 33
Red-Eye			❍	❍	–	❍	△	❍(5)	–	p. 33
Macro Mode			❍	❍	–	❍	△	❍(6)	❍	Basic p. 15
Infinity Mode			–	❍	–	❍	△	❍(6)	❍	
AF Lock		AFL	–	❍	❍	–	–	–	❍(7)	p. 47
AE Lock		AEL	–	❍	❍	–	–	–	❍	p. 49
FE Lock		FEL	–	❍	–	–	–	–	–	p. 50
Shooting Method	Single Shot		●	●	●	●	●	●	●	–
	Continuous		–	❍	❍	–	–	❍	–	p. 37
	10 sec. Self-Timer		❍	❍	❍	❍	❍	❍	❍	Basic p. 16
	2 sec. Self-Timer		❍	❍	❍	❍	❍	❍	❍	
	Custom Timer		❍	❍	❍	–	–	❍	–	
Autofocus Modes			❍	❍	❍	❍	–	❍(8)	–	p. 46
AF-assist Beam			❍	❍	❍	❍	△	❍(9)	❍	p. 24

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Function									Page
Digital Zoom		❍	❍	❍(10)	–	–	❍(1)	❍(11)	p. 35
Digital Tele-Converter		❍	❍	–	–	–	❍(1)	–	p. 35
Metering Method	Evaluative	❍	●	●	❍	❍	❍	❍	p. 51
	Center Weighted Avg.	–	❍	❍	–	–	–	–	
	Spot	–	❍	❍	–	–	–	–	
Exposure Compensation		–	❍	❍	–	△	❍(1)	–	p. 52
Exposure Shift		–	–	–	–	–	–	❍	p. 42
Long Shutter		–	❍	–	–	–	–	–	p. 53
White Balance		–	❍	❍	–(12)	△	–(12)	❍(7)	p. 55
My Colors		–	❍	❍	–	△	–	❍(7)	p. 58
ISO Speed		❍(13)	❍	❍	–(12)	–(12)	–(12)	–	p. 65
Auto Rotate		❍	❍	❍	❍	△	❍	❍	p. 66
Grid Lines		❍	❍	❍	❍	–	❍	❍(4)	p. 39

❍ Setting available (● Default setting)
△ Setting can only be selected for the first image. (▲ Default setting)
(Shaded Area):Setting is retained even when the camera power is shut off.

(1) Cannot be set in the mode.
(2)(3)The recording pixels and frame rates for the (Movie) mode are as follows.

	Recording Pixels				Frame Rate	
	1920	640	320	160	30	15
	–	●	❍	–	●	❍
1024	●	–	●	–	–	–
	–	–	–	●	–	●

(4) Default flash settings are as follows.
- : Auto
- : Flash Off (flash cannot be configured for , or .)

(5) Cannot be set in the modes.
(6) You cannot switch between the Macro/Infinity modes when the camera is in the modes.
(7) Cannot be selected in the or mode.
(8) AF cannot be selected in the mode.
(9) Cannot be set in the modes.
(10) [Off] cannot be selected in the mode.
(11) Can only be set and used in the mode.
(12) Automatically set by the camera.
(13) can be selected.
(14) In mode, only [Grid Lines] can be used.

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